Pre-Design Report

University of Wisconsin-Eau Claire
New Science/Health Science Building
Eau Claire, Wisconsin

DFD Project Number 19J4E

May 28, 2021

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Success by **Design**

HOK

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1.0 INTRODUCTION/OVERVIEW

This proposed Project is planned to construct a new Science and Health Science Building on the campus of the University of Wisconsin-Eau Claire (UWEC). It will replace the existing 192,250 GSF Phillips Hall Science Building, which was constructed in 1963 with an addition in 1968, and no longer fulfills the University's requirements for teaching the science curricula of the 21st century.

The proposed Project includes the removal of two existing residence halls to make room on the selected site for the new science building, and also includes the removal of the existing Phillips Hall Science Building, making way for a proposed parking lot expansion for additional lowe- campus parking.

This Pre-Design Report documents and concludes the Programming and Concept Phase of this Project. Information was obtained through a series of meetings with representatives from UWEC campus User Groups, the University of Wisconsin System Administration (UWSA), and the State of Wisconsin Division Facilities Development (DFD) during Winter and Spring, 2021. The Design Team also investigated and reviewed DFD Design Guidelines, City of Eau Claire Planning and Zoning information, and The State of Wisconsin prevailing codes and regulations in the preparation of this report. This report builds upon the 2018 science program feasibility study that identified the departments and space needs preliminary assessment.

The purpose of this report is to establish the space program and design concept that will serve as a basis for subsequent project phases. The program defines the size of the building, lists spaces and identifies assigned net area. The Design Concept includes a site layout, building form and appearance, and internal floor plans that propose critical circulation patterns and space adjacencies for the entire space program.

The space program includes teaching and research laboratories, offices, and support spaces for the following departments: Biology, Chemistry and Biochemistry, Computer Science, Geography and Anthropology, Geology, Materials Science and Biomedical Engineering, Nursing, Physics and Astronomy, Psychology, Public Health and Environmental Studies, and shared areas. It will also include spaces for a collaborative use among UWEC faculty, staff and students, and the Mayo Clinic Health System, under the formalized Mayo Clinic research agreement.

This project is anchored in the University's mission and long tradition of providing integrated and experiential learning and undergraduate research opportunities for its students. It will enable the University's future vision to provide nationally recognized learning and research in service to health and human wellbeing. The strategic goals for the building are designed to foster collaboration across the sciences by organizing the building in a manner that creates opportunities for interactions and the collision of ideas across disciplines, breaking down traditional siloed departmental arrangements. Science will be visibly on display throughout the building, but especially on lower floor levels which are designed to house the higher through-put classes where more students, visitors, and collaborative community partners will have access to see, observe, inquire, and engage with the sciences.

Steering and Building Planning Committee members as well as faculty, staff and student levels strongly support the collaborative vision set forth for the programming of this new building. Stakeholders were represented in the planning meetings and spoke freely and passionately about the mission and vision they have for this facility. At the onset of the Pre-Design Study the Design Team conducted three sessions with these groups to investigate and explore ideas about the mission, vision, and guiding principles that should inform the programming and building design process. This is documented in the Vision and Guiding Principles document completed at the end of this visioning period.

The new building is proposed on lower campus on a site at the intersection of the Garfield Pedestrian Corridor and Putnam Drive. It is programmed to be approximately 184,000 net assignable square feet (NSF), and 330,000 gross square feet (GSF), and is planned as a five-story building with a mechanical penthouse level. A four-story configuration was looked at and did not fit on the site. The site is on the main route connecting upper and lower campus along the Garfield Pedestrian Corridor, and fronts the Chippewa River. The existing Putnam and Katherine Thomas residence hall buildings will be razed to make way for the new building.

The Project will be designed to comply with DFD Sustainability Guidelines going into effect in October 2021, and will include additional sustainable design strategies to be determined by UWEC in future design phases. Various ideas are under consideration for bundling into the most impactful overall strategy while maintaining a balance with other competing considerations to keep the overall project in line with the proposed budget. Sustainability is a guiding principle for UWEC, and a key part of its strategic plan.

The Project may pursue LEED Certification if UWEC chooses to do so with their funds, but Certification will not be provided using DFD project funds.

The removal of Phillips Science Building and redevelopment into a parking lot expansion will be developed in future planning, and is not detailed in this report, but is anticipated to be included in the Project.

2.1 INTRODUCTION

The facility is intended to serve as the primary home for science and health science education and research on campus. The facility also has an outreach mission to K-12 schools and the community through the planetarium, greenhouse, and community and industry partnerships.

UWEC is distinguished by its nationally recognized undergraduate research programs that include:

1. An annual Celebration of Research and Creative Activities week that highlights hundreds of student and faculty collaborative research projects, posters, and presentations
2. An International Fellows program that provides support for faculty-student research around the globe
3. A unique Biomedical Innovators scholarship program, in partnership with the Mayo Clinic Health System that pairs student researchers with Mayo physicians and clinicians to work on issues that address patient health
4. Blugold Fellows program that offers research experiences to students beginning in their first year at the University

This commitment to undergraduate research and to the sciences and health sciences necessitates facilities that will co-locate research, teaching, and support labs to encourage innovation, foster cross-disciplinary collaboration and provide ready access for students, faculty, and staff to interact and share instrumentation whether in the classroom or laboratory.

The vision sessions highlighted the significant deficits and barriers of the current facilities to which are inflexible, restrict collaborative use of instruments, prevent effective collaboration, lack informal learning spaces, and isolate science from public view. The result is a current building that actively discourages the University's ability to recruit and retain faculty and students.

2.2 PRINCIPLES AND GOALS

These guiding principles, developed for the project, served as a foundation for the programming phase. The building must be:

1. Inclusive: a building without physical barriers, fostering equity, addressing social justice issues, and welcoming for all students regardless of major.
2. Cross-Disciplinary: a place for catalyzing experiences, and interdisciplinary connections
3. Collaborative: a facility that erases barriers to partnerships and encourages new relationships
4. Active: a place that engages people for informal and formal learning and discovery
5. Transformative: a building that enables students to explore science and its impact
6. Sustainable: a building that is a beacon and showcase of strategies that support a healthy planet

The key goals for the project are as follows:

1. Flexibility to embrace the future as science changes and to enable thematic learning and research
2. Science and its applications being highlighted as the outcomes from scientific education and research
3. Inclusive environment for all staff, students (majors and non-majors), and visitors
4. Shared resources across disciplines to optimize use

2.3 OCCUPANT/USER ACTIVITIES

The design team met with each of the departments to be housed: Chemistry and Biochemistry, Biology, Computer Science, Geography and Anthropology, Geology, Materials Science and Biomedical Engineering, the Mayo Clinic Health System, Nursing, Physics and Astronomy, Psychology, Public Health and Environmental Studies. The departments each have their specific needs, but also focused on how they will use this building as an opportunity to strengthen their existing partnerships and shared themes.

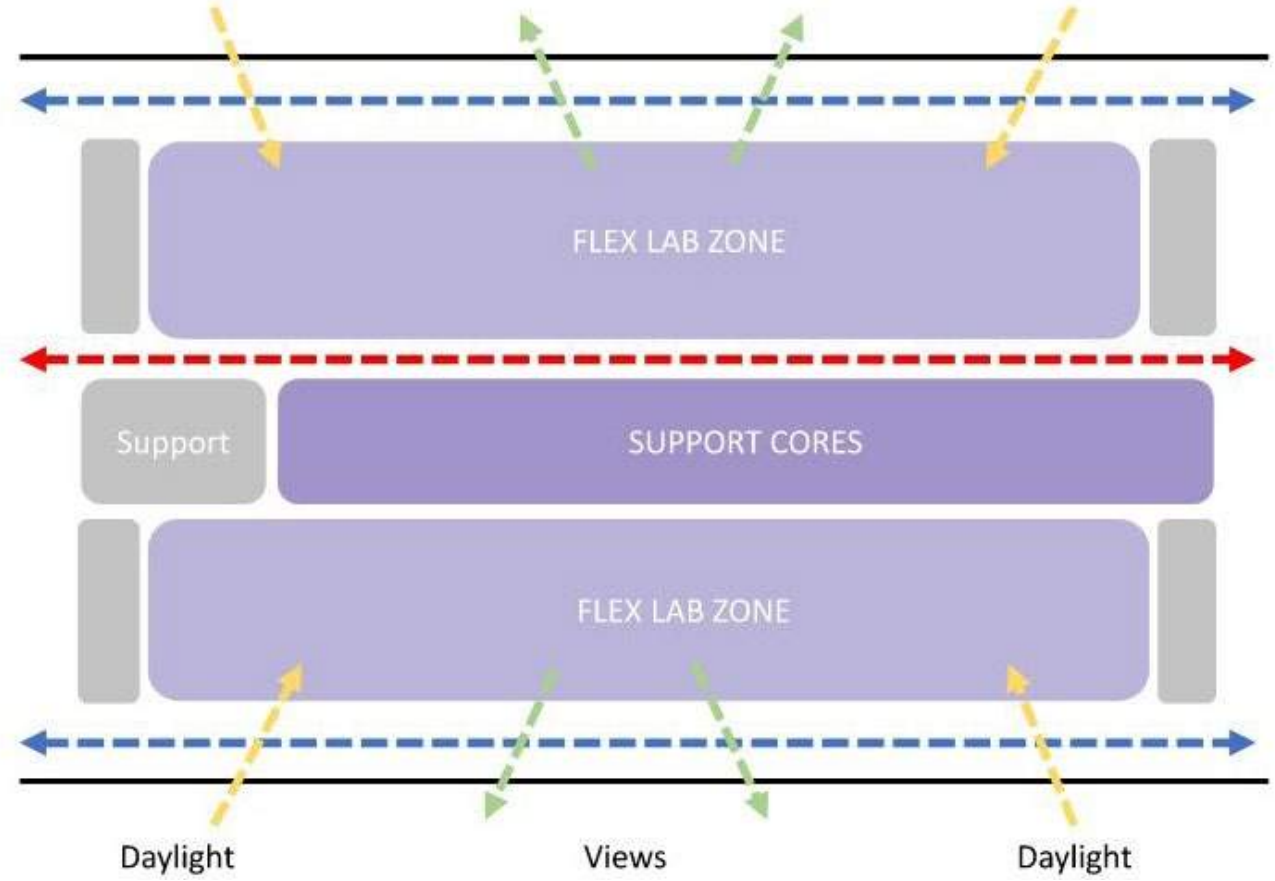
Planning Modules:

In the review of the Feasibility Study the Design team found that the planning module of 10 feet by 10 feet was used throughout to develop base sizes for class labs and research labs. The experience of the team suggested a 10'-8" x 10'-8" module allows for wall thicknesses to be incorporated in the planning without sacrificing the aisle widths and safety. The overall class labs were programmed at 1200 net square feet (NSF). This size does not consider the door alcoves and wall thickness and would leave each class lab well below the five-foot aisles required in a

lab. The team used a 1290 NSF lab module based on the wall center lines and an overall 1365 NSF module that outlines the labs. The typical class lab is thus 4 modules wide by 3 modules deep.

Building Planning:

The overall concept for the lab wings is to have "eight packs" of labs around a support zone for prep labs, instruments, vivarium, and supplies to be delivered to labs without entering the public corridor. This separation is key to creating active and engaging corridors for student and faculty interaction.



During programming meetings a key theme emerged, there are synergies between parts of departments that would benefit from being co-located together. These synergies were the basis for the building stacking diagram and reflected the following Lab Neighborhoods:

- Biochemistry – Biology, Chemistry and Biochemistry, and Materials Science and Biomedical Engineering have research and class labs that benefit by sharing tissue culture and support equipment
- Material Prep + Analysis – Geology and Material Sciences use the sample prep and analysis instrumentation
- Introductory Labs – Chemistry and Biochemistry and Biology each have 4 labs that are highly utilized by non-majors and benefit from the Chemical Storeroom and Prep area for these high throughput labs.
- Advanced Chemistry – Chemistry and Biochemistry has a variety of organic, synthesis, advanced, and instrumentation research and teaching labs.
- Health Core – Nursing and Biology share synergies with the cadaver lab, anatomy and skills training
- Biology+Neuroscience – This neighborhood focuses on the vivarium and animal teaching and research needs.
- Mayo Partnership – This is envisioned to be integral with the building and associated with the neighborhoods

First Floor

The ground floor will celebrate the science and exploration within the building including exhibition spaces like the presentation stairs, Mayo Clinic Partnership, planetarium, and The Clark Bird museum. The large lecture hall will be a flat floor, multipurpose space able to host 150 participants in a variety of settings from didactic learning to interactive learning modules. It will have views to the Chippewa River and be directly off the main lobby space. The lab neighborhoods on this floor will focus on the high throughput Chemistry and Biochemistry and Biology labs as well as the vibration sensitive Materials Science and Biomedical Engineering imaging instrumentation and the Geology rock preparation lab. The flexible collaboration lab spaces and shops are also located in the center of the plans to show off the 3D printing capabilities for MSBME, Computer Science, and Mayo Clinic Partnership.

Second Floor

The second floor will focus on the remainder of Geology and Materials Science and Biomedical Engineering teaching and research labs on the south wing. The Geology teaching labs need direct access to sunlight and are located on the outside edge of the North wing. The Computer Science teaching and research will have proximity to the central collaboration space to allow connection for student and faculty interactions.

Faculty offices are dispersed throughout the second through fifth floors in neighborhoods that ring the work rooms and student areas fostering collaboration and interaction. The neighborhoods are directly off the central hub space with a buffer of meeting space.

Third Floor

The third floor programs on the North wing are for advanced Chemistry and Biochemistry teaching and research labs and the South wing on the Geography and Anthropology neighborhood. The Public Health and Environmental Studies research labs are adjacent to the Biology teaching labs. The mix of research and teaching on this floor supports the collaboration across disciplines.

Fourth Floor

The fourth floor north wing is comprised of the Biochemistry, Molecular, and Biomedical Engineering neighborhood on the north wing. The labs are focused around shared instrumentation and tissue culture cores. The south wing neighborhood I comprised of Nursing Simulation and Biology's Anatomy Labs centering this wing on human health. The Nursing simulation suite will serve one of the largest programs in the facility and be located off the center hub space. The suite will have multiple high-fidelity simulation rooms and skills training room as well as the debrief rooms.

Fifth Floor

The fifth floor north wing is an animal research neighborhood that focuses on the use of animals in research and education. The vivarium will serve the adjacent teaching and research labs via the central support corridor and have direct access to the service elevators. The Physics neighborhood completes the south wing with optics research lab and teaching labs with access to the roof observatory and telescope platform.

Roof Access

In addition to the mechanical equipment penthouse, the greenhouse, observatory, telescope platform, and weather station will be located in an accessible area to allow full access by the students, faculty, and visitors to the facility.

Class Laboratories

Most of the programmed space will be for the high-touch science education for each of the departments. The Design Team worked closely with UWEC Planning and UW System to identify utilization targets for labs, 28 hours per week, and the overall utilization rates for the new labs. The team started with the 2019 data to avoid any anomalies with the 2020 pandemic data. Through this effort the team was able to reduce the overall number of labs and foster more cross discipline use through flexible design principles for the class labs.

Research Laboratories

The research labs were also planned on a module that is not optimal for planning and no provisions were made for equipment space or support space beyond specialized rooms. It is the experience of the team that recalibrated the allotted 500 NSF per faculty and created an allocation based on open lab and flex lab space. The open lab was put into the planning module at 456 NSF and flex of 57 NSF per faculty.

2.4 SPACE TABULATION

The following space program highlights the changes from the Feasibility Study and Concept Programming.

Room function: 01: Biology, 02: Chemistry, 03: Computer Science, 04: Geography and Anthropology, 05: Geology, 06: Material Sciences and Engineering, 08: Mayo Partnership, 09: Nursing, 10: Physics and Astronomy, 11: Psychology, 12: Shared, 13: Public Health and Environmental Studies

Name	Number of Rooms	Prog. Area	Sum
Sum	**553**		**178,746.00**
01 Biology	**114**		**38,475.00**
210 Class Laboratory	**12**		**14,190.00**
Anatomy & Physiology Teaching Lab - 1	1	1,290.00	1,290.00
Anatomy & Physiology Teaching Lab - 2	1	1,290.00	1,290.00
Flexible Teaching Lab - with hood	2	1,290.00	2,580.00
Flexible Teaching Lab -1	1	1,290.00	1,290.00
Flexible Teaching Lab -2	1	1,290.00	1,290.00
Flexible Teaching Lab -3	1	1,290.00	1,290.00
Flexible Teaching Lab -4	1	1,290.00	1,290.00
Microbiology Teaching Lab	1	1,290.00	1,290.00
Molecular / Biochemistry Teaching Lab - 1	1	1,290.00	1,290.00
Molecular / Biochemistry Teaching Lab - 2	1	0.00	0.00
Neurology Teaching Lab	1	1,290.00	1,290.00
215 Class Laboratory Service	**14**		**3,808.00**
Animal Collection	1	200.00	200.00
Cell Tissue Culture - Teaching	2	200.00	400.00
Field Storage - Garage	1	200.00	200.00
Field Storage - Indoor	1	200.00	200.00
General Biology Prep	2	120.00	240.00
Microbiology Prep Lab	1	300.00	300.00
Molecular Prep Lab	1	300.00	300.00
Plant Collection	1	200.00	200.00
Prep Lab	1	1,408.00	1,408.00
Prep Lab - Ecology	1	120.00	120.00
Prep Lab - Plant	1	120.00	120.00
Teaching Prep Lab - Animal	1	120.00	120.00
250 Research Laboratory	**32**		**8,550.00**
Aquatics Research - Flex Room	1	57.00	57.00
Aquatics Research - Open Lab	1	456.00	456.00
Computational Research	1	0.00	0.00
Ecology Research - Flex Room	5	57.00	285.00
Ecology Research - Open Lab	5	456.00	2,280.00
Microbiology Wet Bench Research - Flex Room	2	57.00	114.00
Microbiology Wet Bench Research - Open Lab	2	456.00	912.00
Wet Bench Research - Flex Room	6	57.00	342.00
Wet Bench Research - Open Lab	6	456.00	2,736.00
Wet Bench Research New Hire - Open Lab	3	456.00	1,368.00
255 Research Laboratory Service	**12**		**1,840.00**
Cell Tissue Culture - Research	2	220.00	440.00
Cold Room	2	120.00	240.00
Dark Room - LED Box Research	1	0.00	0.00
Glasswash/Media Prep	1	270.00	270.00
Microscopy	4	115.00	460.00
Microscopy	1	200.00	200.00
PCR Extraction Lab	1	230.00	230.00

Name	Number of Rooms	Prog. Area	Sum
310 Office	**24**		**2,400.00**
Adjunct Office	4	100.00	400.00
Faculty Office	18	100.00	1,800.00
Staff Office	2	100.00	200.00
315 Office Service	**2**		**240.00**
Kitchenette	1	120.00	120.00
Work Room	1	120.00	120.00
350 Conference Room	**1**		**225.00**
Conference Room	1	225.00	225.00
410 Study Room	**1**		**600.00**
Biology Student Space	1	600.00	600.00
570 Animal Facilities	**5**		**902.00**
Neurology Research Lab - Procedure	1	0.00	0.00
Vivarium - Isolation Cubicles	2	280.00	560.00
Vivarium - Zebrafish Holding	1	228.00	228.00
Vivarium - Zebrafish Quarantine	1	114.00	114.00
580 Greenhouse	**10**		**5,120.00**
Environmental Chamber - Dark Room	1	100.00	100.00
Greenhouse - Growing Room	1	500.00	500.00
Greenhouse - Growing Room, Propagation	1	500.00	500.00
Greenhouse - Growing Room, Succulent	1	500.00	500.00
Greenhouse - Growing Room, Temperate	1	500.00	500.00
Greenhouse - Head House	1	600.00	600.00
Greenhouse - Plant Growth Chambers	1	400.00	400.00
Greenhouse - Tropical Room	1	1,200.00	1,200.00
Greenhouse Corridor	1	720.00	720.00
Walk in Growth Chamber	1	100.00	100.00
620 Exhibition	**1**		**600.00**
Clark Museum Bird Collection	1	600.00	600.00
02 Chemistry	**86**		**33,630.00**
210 Class Laboratory	**8**		**10,710.00**
Advanced Chemistry	1	1,290.00	1,290.00
Analytical Chemistry	1	1,290.00	1,290.00
Biochemistry Lab	1	1,290.00	1,290.00
General Chemistry - 1	1	1,290.00	1,290.00
General Chemistry - 2	1	1,290.00	1,290.00
General Chemistry - 3	1	1,290.00	1,290.00
General Chemistry - 4	1	1,290.00	1,290.00
Organic Chemistry	1	1,680.00	1,680.00
215 Class Laboratory Service	**16**		**8,297.00**
Advanced Chemistry - CoLab	1	645.00	645.00
Advanced Teaching Prep	1	171.00	171.00
Analytical Chemistry - CoLab	1	645.00	645.00
Analytical Teaching Prep	1	171.00	171.00
Biochemistry Cold Room	1	110.00	110.00

Name	Number of Rooms	Prog. Area	Sum
Biochemistry Lab - CoLab	1	171.00	171.00
Biochemistry Teaching Prep	1	171.00	171.00
Chemistry Data Processing	1	720.00	720.00
Chemistry Prep & Stock	1	2,000.00	2,000.00
Chemistry Storage	1	400.00	400.00
General Chemistry - CoLab	1	0.00	0.00
General Chemistry - CoLab (Didactic)	1	645.00	645.00
General Chemistry - CoLab (Shared Equipment)	1	645.00	645.00
General Chemistry - Prep Area	1	342.00	342.00
Organic Chemistry - Instrument Lab	1	1,290.00	1,290.00
Organic Teaching Prep	1	171.00	171.00
250 Research Laboratory	**33**		**8,958.00**
Analytical Wet Bench Research - Flex Room	4	57.00	228.00
Analytical Wet Bench Research - Open Lab	4	456.00	1,824.00
Biochemistry Wet Bench Research - Flex Room	4	57.00	228.00
Biochemistry Wet Bench Research - Open Lab	4	456.00	1,824.00
Chemistry Computational	1	200.00	200.00
Demonstration / Outreach Lab	1	456.00	456.00
Physical Chemistry (Laser)	1	400.00	400.00
Physical Chemistry (Laser)	1	500.00	500.00
Radiological Lab	1	220.00	220.00
Synthetic Wet Bench Research - Flex Room	6	57.00	342.00
Synthetic Wet Bench Research - Open Lab	6	456.00	2,736.00
255 Research Laboratory Service	**3**		**2,400.00**
Chemistry Instrument Suite	1	2,000.00	2,000.00
NMR	1	300.00	300.00
XRD	1	100.00	100.00
310 Office	**22**		**2,200.00**
Adjunct Office	2	100.00	200.00
Faculty Office	16	100.00	1,600.00
Staff Office	4	100.00	400.00
315 Office Service	**2**		**240.00**
Kitchenette	1	120.00	120.00
Work Room	1	120.00	120.00
350 Conference Room	**1**		**225.00**
Conference Room	1	225.00	225.00
410 Study Room	**1**		**600.00**
Chemistry Student Space	1	600.00	600.00
03 Computer Science	**24**		**5,795.00**
210 Class Laboratory	**2**		**2,030.00**
Computer Science Teaching Lab - 1	1	1,310.00	1,310.00
Cybersecurity Teaching & Research	1	720.00	720.00
250 Research Laboratory	**9**		**1,900.00**
Computational Research	4	200.00	800.00
Data Visualization	2	200.00	400.00
Tutoring - Computer Lab	1	500.00	500.00

Name	Number of Rooms	Prog. Area	Sum
Tutoring - Technology Lab	1	200.00	200.00
Tutoring - Technology Lab	1	0.00	0.00
310 Office	**9**		**800.00**
Adjunct Office	1	0.00	0.00
Faculty Office	7	100.00	700.00
Staff Office	1	100.00	100.00
315 Office Service	**2**		**240.00**
Kitchenette	1	120.00	120.00
Work Room	1	120.00	120.00
350 Conference Room	**1**		**225.00**
Conference Room	1	225.00	225.00
410 Study Room	**1**		**600.00**
Computer Science Student Space	1	600.00	600.00
04 Geography and Anthropology	**38**		**9,661.00**
210 Class Laboratory	**4**		**3,870.00**
Geospatial Teaching Lab - 1	1	1,290.00	1,290.00
Geospatial Teaching Lab - 2	1	1,290.00	1,290.00
Geospatial Teaching Lab - 3	1	0.00	0.00
Physical Geography	1	1,290.00	1,290.00
215 Class Laboratory Service	**2**		**400.00**
Field Equipment Storage	1	0.00	0.00
Geography Storage	1	400.00	400.00
250 Research Laboratory	**9**		**2,426.00**
Geography Computational Research Remote Sensing	4	200.00	800.00
Geography Wet Bench Research - Flex Room	2	57.00	114.00
Geography Wet Bench Research - Open Lab	2	456.00	912.00
Geospatial Research Lab	1	600.00	600.00
310 Office	**19**		**1,900.00**
Adjunct Office	2	100.00	200.00
Faculty Office	16	100.00	1,600.00
Staff Office	1	100.00	100.00
315 Office Service	**2**		**240.00**
Kitchenette	1	120.00	120.00
Work Room	1	120.00	120.00
350 Conference Room	**1**		**225.00**
Conference Room	1	225.00	225.00
410 Study Room	**1**		**600.00**
Geog&Anth Student Space	1	600.00	600.00
05 Geology	**39**		**12,177.00**

Name	Number of Rooms	Prog. Area	Sum
210 Class Laboratory	**5**		**4,590.00**
Computer Teaching Lab	1	720.00	720.00
Earth History Teaching Lab	1	1,290.00	1,290.00
Environmental Geology	1	0.00	0.00
Hydrogeology Teaching Lab	1	1,290.00	1,290.00
Petrology Teaching Lab	1	1,290.00	1,290.00
215 Class Laboratory Service	**6**		**1,700.00**
Field Storage - Garage	1	200.00	200.00
Field Storage - Indoor	1	200.00	200.00
Geology Prep Lab	1	300.00	300.00
Hydrology equipment	1	300.00	300.00
Rock Storage - Cold	1	300.00	300.00
Rock Storage - Indoor	1	400.00	400.00
250 Research Laboratory	**10**		**2,622.00**
Geology Wet Bench	1	450.00	450.00
Geology Wet Bench Research - Flex Room	4	57.00	228.00
Geology Wet Bench Research - Open Lab	4	456.00	1,824.00
Sustainable Geoscience	1	120.00	120.00
255 Research Laboratory Service	**3**		**1,000.00**
Experimental Petrology	1	200.00	200.00
Petrology Microscope	1	200.00	200.00
Rock Preparation Suite	1	600.00	600.00
310 Office	**11**		**1,200.00**
Adjunct Office	1	100.00	100.00
Faculty Office	9	100.00	900.00
Staff Office	1	200.00	200.00
315 Office Service	**2**		**240.00**
Kitchenette	1	120.00	120.00
Work Room	1	120.00	120.00
350 Conference Room	**1**		**225.00**
Conference Room	1	225.00	225.00
410 Study Room	**1**		**600.00**
Geology Student Space	1	600.00	600.00
06 Material Sciences and Engineering	**55**		**20,161.00**
210 Class Laboratory	**6**		**5,550.00**
Clean Room Teaching Lab	1	0.00	0.00
Flexible Teaching Lab - BME Cores / MSE Experiences	1	1,290.00	1,290.00
Flexible Teaching Lab - Capstone	1	1,680.00	1,680.00
Flexible Teaching Lab - Dry Teaching	1	1,290.00	1,290.00
Flexible Teaching Lab - Wet Teaching	1	0.00	0.00
Flexible Teaching Lab - Wet Teaching	1	1,290.00	1,290.00
215 Class Laboratory Service	**7**		**2,616.00**
Computer Lab	1	960.00	960.00

Name	Number of Rooms	Prog. Area	Sum
Materials Processing	1	600.00	600.00
Materials Science Storage	1	0.00	0.00
Storage	1	600.00	600.00
Support Alcove	1	0.00	0.00
Teaching - Tissue Culture Lab	2	228.00	456.00
250 Research Laboratory	**15**		**4,380.00**
BME - Tissue Culture	1	0.00	0.00
Biomedical Engineering Capstone	1	0.00	0.00
Biomedical Engineering Wet Bench Research - Flex Room	2	114.00	228.00
Biomedical Engineering Wet Bench Research - Open Lab	2	456.00	912.00
Fabrication	1	200.00	200.00
Materials Science Computational	1	300.00	300.00
Materials Science Dry Bench Research	2	800.00	1,600.00
Materials Science Engineering Capstone	1	0.00	0.00
Materials Science Wet Bench Research - Flex	2	114.00	228.00
Materials Science Wet Bench Research - Open Lab	2	456.00	912.00
255 Research Laboratory Service	**11**		**5,350.00**
Materials Science Center - Chiller	1	50.00	50.00
Materials Science Center - Elemental Analysis	1	660.00	660.00
Materials Science Center - ICPMS	1	440.00	440.00
Materials Science Center - ICPMS Prep	1	220.00	220.00
Materials Science Center - Mechanical Chemical Molecular	1	1,700.00	1,700.00
Materials Science Center - Microscopy Instrument Suite	1	1,350.00	1,350.00
Materials Science Center - Nikon	1	80.00	80.00
Materials Science Center - Polymer Lab	1	330.00	330.00
Materials Science Center - SEM	2	150.00	300.00
Materials Science Center - TEM	1	220.00	220.00
310 Office	**12**		**1,200.00**
Adjunct Office	1	100.00	100.00
Faculty Office - BME	3	100.00	300.00
Faculty Office - MSE	5	100.00	500.00
Staff Office	3	100.00	300.00
315 Office Service	**2**		**240.00**
Kitchenette	1	120.00	120.00
Work Room	1	120.00	120.00
350 Conference Room	**1**		**225.00**
Conference Room	1	225.00	225.00
410 Study Room	**1**		**600.00**
Materials Science & Engineering Student Space	1	600.00	600.00
08 Mayo Partnership	**6**		**8,500.00**
250 Research Laboratory	**6**		**8,500.00**
Cadaver Lab	1	1,000.00	1,000.00
Mayo Node - AI and Bioinformatics	1	2,000.00	2,000.00
Mayo Node - Bio-fabrication	1	2,000.00	2,000.00
Mayo Node - Bio-fabrication	1	0.00	0.00
Mayo Node - Home Health, Patient Outreach, and Digital Health	1	2,000.00	2,000.00
Mayo Node - Innovation Hub	1	1,500.00	1,500.00

Name	Number of Rooms	Prog. Area	Sum
09 Nursing	**67**		**7,530.00**
210 Class Laboratory	**52**		**6,210.00**
Clinic Rooms - Simulation	15	120.00	1,800.00
Flexible Skills Practice - Beds	15	0.00	0.00
Flexible Skills Practice Teaching - Demonstration Area	1	0.00	0.00
Flexible Skills Practice Teaching - Student Area	1	0.00	0.00
Home Care Simulation	1	0.00	0.00
Simulation - Control Room	2	200.00	400.00
Simulation - Debrief	5	250.00	1,250.00
Simulation - Flexible	4	256.00	1,024.00
Simulation - Standard	6	256.00	1,536.00
Skills Practice - Student Independent Practice	1	0.00	0.00
Student Charting Area	1	200.00	200.00
215 Class Laboratory Service	**10**		**1,020.00**
	1	0.00	0.00
Clinic Rooms - Control Room	1	0.00	0.00
Clinic Rooms - Observation Area	1	0.00	0.00
Standardized Patient - Change Room	1	110.00	110.00
Standardized Patient - Lounge Area/Briefing	1	110.00	110.00
Standardized Patient - Reception / Waiting Area	1	200.00	200.00
Standardized Patient - Storage	1	0.00	0.00
Storage	1	600.00	600.00
Storage	1	0.00	0.00
Student Charting Area	1	0.00	0.00
250 Research Laboratory	**1**		**100.00**
Wet Lab	1	100.00	100.00
310 Office	**3**		**200.00**
Staff Office	2	100.00	200.00
Support Staff/Work Room	1	0.00	0.00
410 Study Room	**1**		**0.00**
Nursing Student Space	1	0.00	0.00
10 Physics and Astronomy	**40**		**18,005.00**
210 Class Laboratory	**4**		**5,160.00**
Electronics Teaching Lab	1	1,290.00	1,290.00
Physicial Sciences Physics	1	1,290.00	1,290.00
Physics I Teaching Lab	1	1,290.00	1,290.00
Physics II - Electricity and Magnets	1	1,290.00	1,290.00
215 Class Laboratory Service	**2**		**1,600.00**
Physics Demo Room	1	800.00	800.00
Storage Space	1	800.00	800.00
250 Research Laboratory	**11**		**6,180.00**
Electronics Research Lab	2	500.00	1,000.00
Engineering Physics Capstone	1	1,290.00	1,290.00
Optics Research	1	1,290.00	1,290.00
Physics Computational	3	200.00	600.00

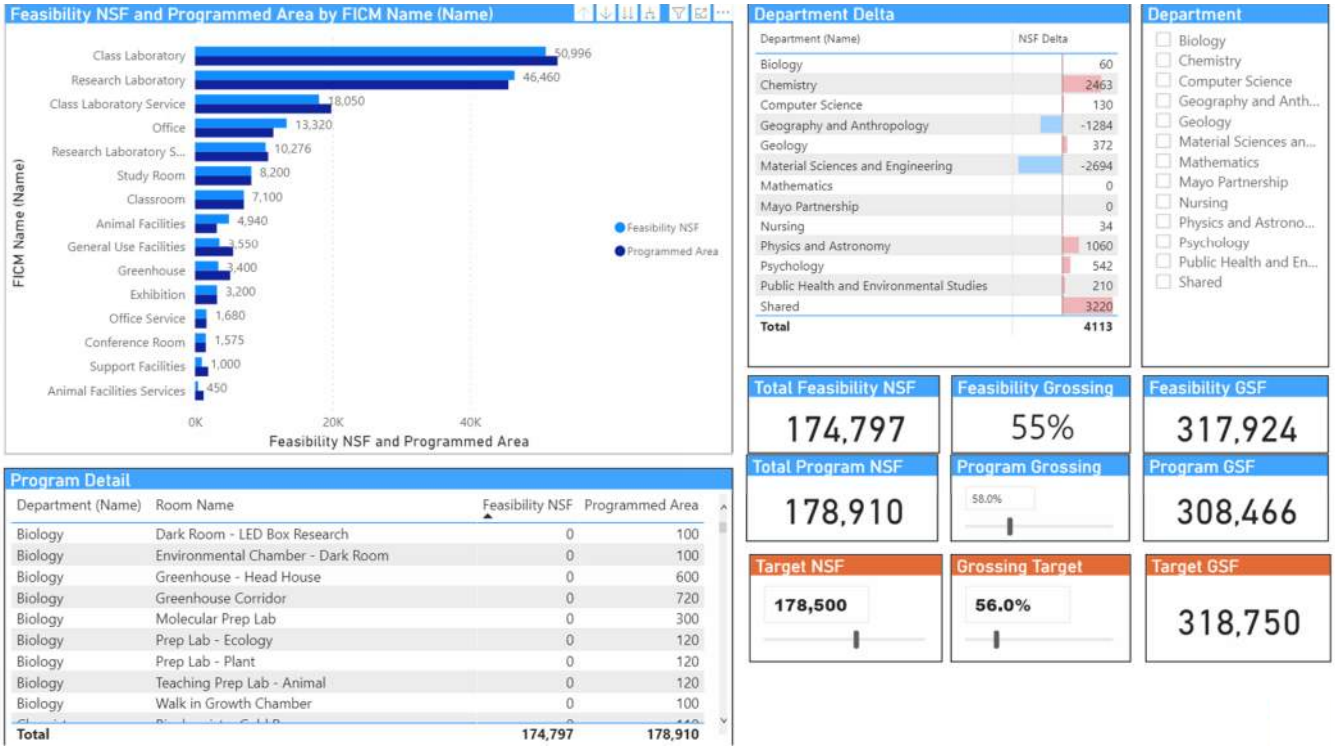
Name	Number of Rooms	Prog. Area	Sum
Physics Dry Bench Research	4	500.00	2,000.00
310 Office	**15**		**1,400.00**
Adjunct Office	1	0.00	0.00
Faculty Office	12	100.00	1,200.00
Staff Office	2	100.00	200.00
315 Office Service	**2**		**240.00**
Kitchenette	1	120.00	120.00
Work Room	1	120.00	120.00
350 Conference Room	**1**		**225.00**
Conference Room	1	225.00	225.00
410 Study Room	**1**		**600.00**
Physics & Astronomy Student Space	1	600.00	600.00
620 Exhibition	**4**		**2,600.00**
Observatory	1	400.00	400.00
Observatory Control Room	1	200.00	200.00
Planetarium	1	1,200.00	1,200.00
Telescope Platform	1	800.00	800.00
11 Psychology	**28**		**3,632.00**
210 Class Laboratory	**1**		**0.00**
Teaching Lab	1	0.00	0.00
215 Class Laboratory Service	**1**		**0.00**
Teaching Lab Storage Room	1	0.00	0.00
250 Research Laboratory	**3**		**0.00**
Neurology Research Lab - Dry	1	0.00	0.00
Neurology Research Lab - Wet	2	0.00	0.00
310 Office	**3**		**100.00**
Faculty Office	2	0.00	0.00
Faculty Office	1	100.00	100.00
570 Animal Facilities	**15**		**2,270.00**
Vivarium - Equipment Storage	1	114.00	114.00
Vivarium - Holding Room	1	228.00	228.00
Vivarium - Isolation Cubicles	1	280.00	280.00
Vivarium - Large Procedure	1	280.00	280.00
Vivarium - Medium Procedure Morris Maze	1	171.00	171.00
Vivarium - Medium Procedure Operant Setup	1	171.00	171.00
Vivarium - Medium Procedure Other Maze	2	171.00	342.00
Vivarium - Necropsy	1	114.00	114.00
Vivarium - Procedure	1	0.00	0.00
Vivarium - Small Holding	2	114.00	228.00
Vivarium - Small Procedure Electrophysiology	1	114.00	114.00
Vivarium - Small Procedure Feeding	1	114.00	114.00
Vivarium - Small Procedure Surgery/Perfusion	1	114.00	114.00

Name	Number of Rooms	Prog. Area	Sum
575 Animal Facilities Services	**5**		**1,262.00**
Vivarium - Bedding/ Cage Storage	1	114.00	114.00
Vivarium - Cage Wash	1	228.00	228.00
Vivarium - Circulation	1	692.00	692.00
Vivarium - Entrance	1	114.00	114.00
Vivarium - Waste	1	114.00	114.00
12 Shared	**45**		**18,870.00**
110 Classroom	**5**		**7,100.00**
Active Learning Classroom - 1	1	900.00	900.00
Active Learning Classroom - 2	1	1,200.00	1,200.00
Large Lecture	1	4,000.00	4,000.00
Large Lecture - Support	2	500.00	1,000.00
250 Research Laboratory	**1**		**300.00**
Cray Computer	1	300.00	300.00
410 Study Room	**21**		**4,000.00**
Informal Student Space	4	1,000.00	4,000.00
Informal Student Space	17	0.00	0.00
600 General Use Facilities	**9**		**5,550.00**
Lobby Space/Prefunction Space	1	2,000.00	2,000.00
Maker Space - Computational	1	200.00	200.00
Maker Space - Digital Fabrication	1	400.00	400.00
Maker Space - Electronics	1	200.00	200.00
Maker Space - General	1	800.00	800.00
Maker Space - Metal Shop	1	400.00	400.00
Maker Space - Project Space	1	750.00	750.00
Maker Space - Storage	1	400.00	400.00
Maker Space - Wood Shop	1	400.00	400.00
700 Support Facilities	**9**		**1,920.00**
Biological Hazardous Waste	1	0.00	0.00
Chemical Waste	1	100.00	100.00
Cylinder Storage	1	100.00	100.00
Dock Storage	1	200.00	200.00
Janitor Supply Room	1	120.00	120.00
Loading Dock	1	1,000.00	1,000.00
Maintenance Office	1	100.00	100.00
Maintenance Room	1	200.00	200.00
Recycling	1	100.00	100.00
13 Public Health and Environmental Studies	**11**		**2,310.00**
210 Class Laboratory	**1**		**0.00**
ENPH Classlab	1	0.00	0.00
215 Class Laboratory Service	**2**		**600.00**
ENPH Storage	1	500.00	500.00
Prep Lab	1	100.00	100.00

Name	Number of Rooms	Prog. Area	Sum
250 Research Laboratory	**8**		**1,710.00**
ENPH Wet Bench Research - Flex Room	3	114.00	342.00
ENPH Wet Bench Research - Open Lab	3	456.00	1,368.00
Environmental Instrument Tower	1	0.00	0.00
PCR Room	1	0.00	0.00

2.5 GRAPHIC SPACE ANALYSIS

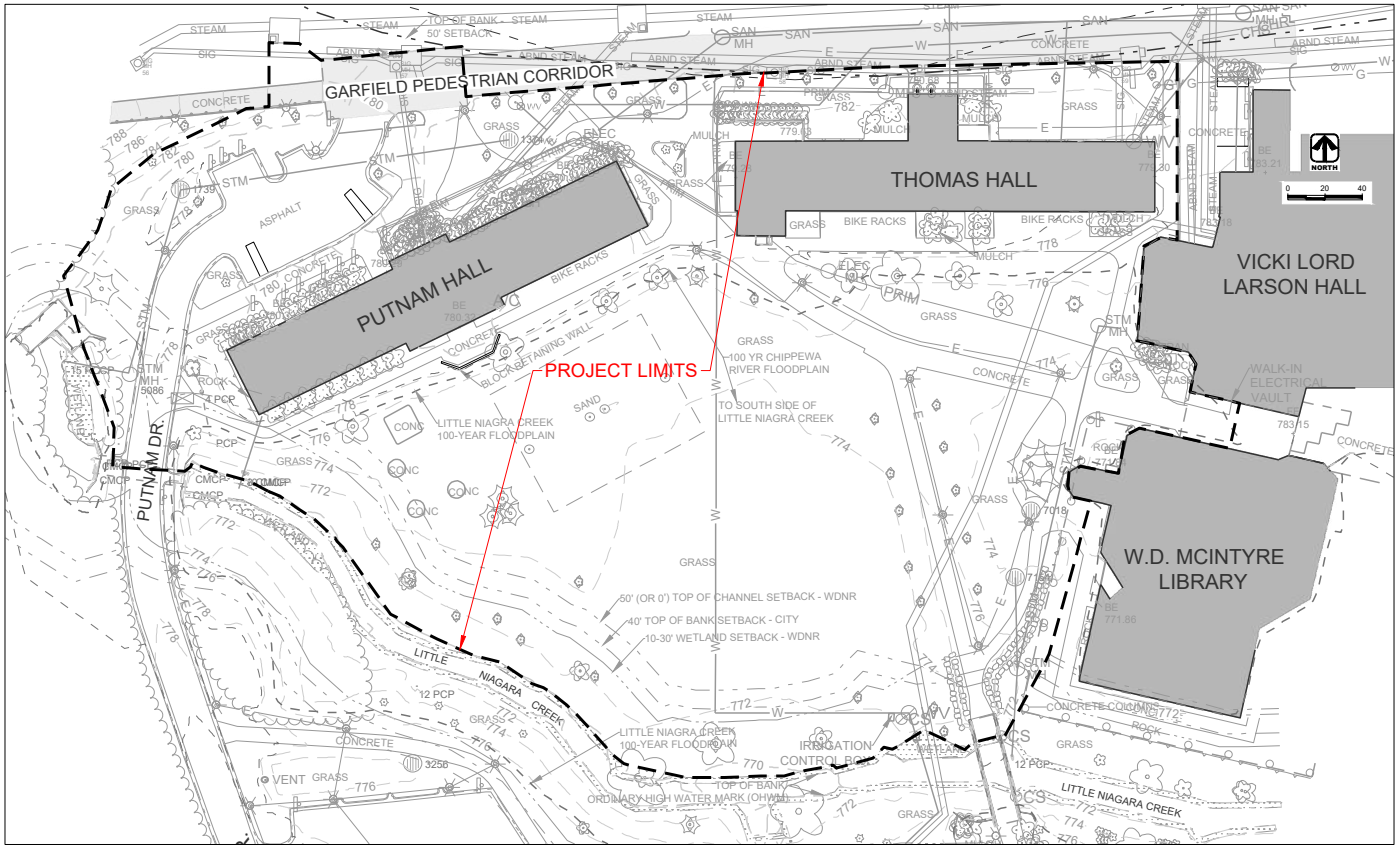
The following diagrams highlight the utilization analysis and program breakout by department.



2.6 ROOM DATA SHEETS

See Appendix B.

3.1 SITE/EXISTING CONDITIONS



Existing Site Features

The existing project site is approximately 4.0 acres on the UWEC campus, located south of the Chippewa River and the Garfield Pedestrian Corridor, west of Vicki Lord Larson Hall and W.D. McIntyre Library, north of Little Niagara Creek and east of Putnam Drive. The site includes two residence halls, Putnam Hall and Katherine Thomas Hall, located near the north edge of the site that will be removed. The remaining site includes pedestrian walkways, a sand volleyball court, green space, landscaping, trees and site furnishings.

The site has mature trees within the project limit of work that vary in size and vigor. The trees to the west, north and center of the site will be removed due to demolition, new construction, and grading activities. Along the eastern and southern boundaries several large trees will remain and be protected for the duration of the project. Campus has also specified several juvenile, recently planted trees to be transplanted and relocated to other areas on campus prior to construction activities. These trees include, but are not limited to, (3) Prairie Crabapples, (4) Star Magnolias, (1) Butternut, (1) Bitternut Hickory and (1-3) Hophornbeam. A tree inventory identifying the tree location, species and diameter at breast height can be found in the image below.

Tree Inventory											
#	Common Name	Genus	Species	Variety/Hybrid	DBH	Evergreen	Deciduous	Native	Introduced	Date	Notes
1	American Basswood	Tilia	americana		15		x	x		9/28/2017	
2	American Beech	Fagus	grandifolia		25		x	x		9/28/2017	
3	Bitternut Hickory	Carya	cordiformis		2		x	x		9/28/2017	Centennial Tree
4	Crabapple	Malus		Adirondack	4.5		x		x	9/3/2019	
5	Crabapple	Malus		Adirondack	4.5		x		x	9/3/2019	
6	Crabapple	Malus		Adirondack	4.5		x		x	9/3/2019	
7	Eastern White Pine	Pinus	strobus		69	x		x		9/28/2017	
8	Eastern White Pine	Pinus	strobus		83	x		x		9/28/2017	
9	Eastern White Pine	Pinus	strobus		74	x		x		9/28/2017	
10	Eastern White Pine	Pinus	strobus		8	x		x		12/20/2020	
11	Green Ash	Fraxinus	pennsylvanica		13		x	x		9/28/2017	
12	Green Ash	Fraxinus	pennsylvanica		54		x	x		9/28/2017	
13	Honeylocust	Gledistia	triacanthos	var. inermis 'Shademaster'	7.3		x	x		9/3/2019	
14	Hophornbeam	Ostrya	virginiana		4		x	x		9/28/2017	Centennial Tree
15	Hophornbeam	Ostrya	virginiana		4		x	x		9/28/2017	Centennial Tree
16	Hophornbeam	Ostrya	virginiana		4		x	x		9/28/2017	Centennial Tree
17	Hophornbeam	Ostrya	virginiana		4		x	x		9/28/2017	Centennial Tree
18	Hophornbeam	Ostrya	virginiana		4		x	x		9/28/2017	Centennial Tree
19	Hophornbeam	Ostrya	virginiana		4		x	x		9/28/2017	Centennial Tree
20	Hophornbeam	Ostrya	virginiana		4		x	x		9/28/2017	Centennial Tree
21	Hophornbeam	Ostrya	virginiana		4		x	x		9/28/2017	Centennial Tree
22	Hophornbeam	Ostrya	virginiana		4		x	x		9/28/2017	Centennial Tree
23	Hophornbeam	Ostrya	virginiana		4		x	x		9/28/2017	Centennial Tree
24	Kentucky Yellowwood	Cladrastis	kentuckea		35		x		x	9/28/2017	
25	Northern Red Oak	Quercus	rubra		23		x	x		9/28/2017	
26	Norway Maple	Acer	platanoides		70		x		x	9/28/2017	
27	Norway Maple	Acer	platanoides		47		x		x	9/28/2017	

Tree Inventory Continued...											
#	Common Name	Genus	Species	Variety/Hybrid	DBH	Evergreen	Deciduous	Native	Introduced	Date	Notes
28	Norway Spruce	Picea	abies		50	x			x	9/28/2017	
29	Norway Spruce	Picea	abies		36	x			x	9/28/2017	
30	Norway Spruce	Picea	abies		39	x			x	9/28/2017	
31	Norway Spruce	Picea	abies		41	x			x	9/28/2017	
32	Pin Oak	Quercus	palustris		14		x	x		9/28/2017	
33	Prairie Crabapple	Malus	ionensis		2		x	x		9/28/2017	Centennial Tree
34	Prairie Crabapple	Malus	ionensis		2		x	x		9/28/2017	Centennial Tree
35	Prairie Crabapple	Malus	ionensis		2		x	x		9/28/2017	Centennial Tree
36	Red Maple	Acer	rubrum		20		x	x		9/28/2017	
37	Silver Maple	Acer	saccharinum		64		x	x		9/28/2017	
38	Silver Maple	Acer	saccharinum		188		x	x		9/28/2017	
39	Speckled Alder	Ulnus	rugosa		3		x	x		9/28/2017	
40	Speckled Alder	Ulnus	rugosa		3		x	x		9/28/2017	
41	Speckled Alder	Ulnus	rugosa		3		x	x		9/28/2017	
42	Star Magnolia	Magnolia	stellata	Royal Star	3.5		x	x		9/3/2019	
43	Star Magnolia	Magnolia	stellata	Royal Star	3.5		x	x		9/3/2019	
44	Star Magnolia	Magnolia	stellata	Royal Star	3.5		x	x		9/3/2019	
45	Star Magnolia	Magnolia	stellata	Royal Star	3.5		x	x		9/3/2019	
46	Sugar Maple	Acer	saccharum		45		x	x		9/28/2017	
47	Sugar Maple	Acer	saccharum		69		x	x		9/28/2017	
48	Sugar Maple	Acer	saccharum		49		x	x		9/28/2017	
49	Sugar Maple	Acer	saccharum		50		x	x		9/28/2017	
50	Swamp White Oak	Quercus	bicolor		15		x	x		9/28/2017	
51	White Spruce	Picea	glauca		24	x			x	9/28/2017	
52	Butternut	Juglans	cinerea		5		x	x		10/2/2017	Centennial Tree
53	Freeman's Maple	Acer	x freemanii	Firefall	7.3		x	x		9/3/2019	

Campus has also identified existing site furnishings that are in good condition and will be salvaged for reuse on this site or elsewhere on campus. The existing site furnishings identified by campus are 43 bike racks in the back of the existing buildings and any moveable or fixed site furnishings in good condition.

Existing Topography

The existing site varies in elevation. The two dormitories near the north end of the project site are at an elevation of approximately 782. South of the dormitories, the ground drops quickly to an elevation of approximately 776 and continues to drop to the south through the green space area to an elevation of approximately 772 near Little Niagara Creek. Between Vicki Lord Larson Hall and W.D. McIntyre Library, there is an exterior underpass/tunnel at an approximate 773 elevation.

Wetlands and Navigable Waterways

A wetland delineation study was completed in October 2020. Three wetlands were identified and delineated and many small slivers of non-continuous wetland areas were identified, all along Little Niagara Creek. The small slivers have been mapped as a continuous 3-foot-wide wetland along Little Niagara Creek, in addition to the three larger wetlands along Little Niagara Creek, as shown below. The delineated wetlands were confirmed by WDNR as accurate per a letter to Kristine Anderson, DFD per a February 2021 review of submitted materials and WDNR notes that the delineation is valid for five years.

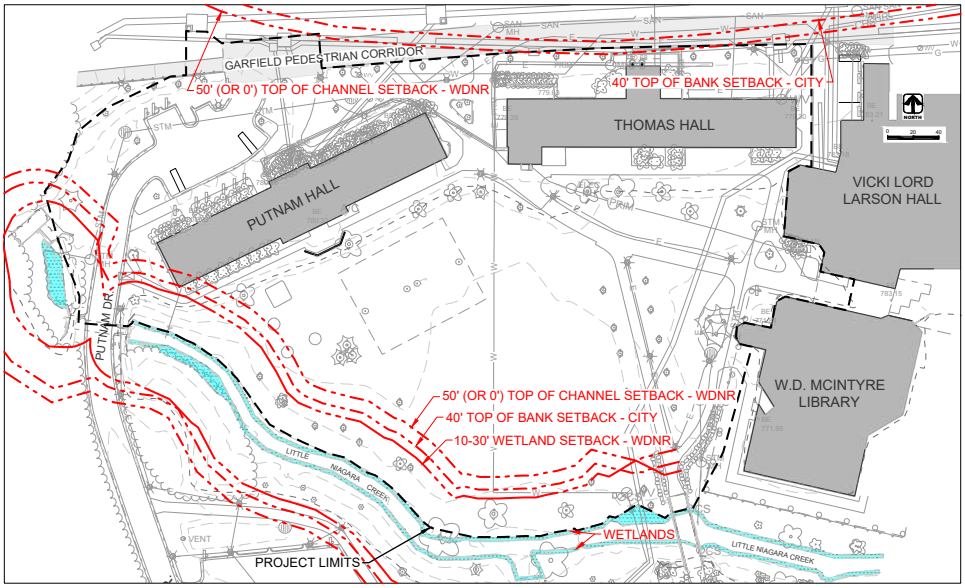
The Chippewa River and Little Niagara Creek are also navigable waterways, and therefore are subject to the navigable waterway regulations.

Wetland and Ordinary High-Water Mark setbacks are regulated by both WDNR and the City of Eau Claire. Note that the setbacks below are to impervious surfaces, however, both WDNR and City of Eau Claire staff indicated that maximum extent practical seems reasonable and considering adjacent campus properties. The building footprint needs to be outside of the setbacks, but pedestrian walkways and plazas could be approved in the setback area, especially with storm water quality treatment prior to discharge. The proposed site plan provides a minimum 50-foot setback from the Little Niagara Creek and Chippewa River Top of Channels, which meets all setbacks noted below.

- Wetland setback to impervious surfaces per WDNR – 10 feet to 30 feet determined at WDNR Storm Water Management Submittal (Notice of Intent/NOI), note that City of Eau Claire does not require a wetland setback per WDNR Runoff Management Code NR 151.

- Top of Channel (OHWM) Setback to Impervious Surfaces per WDNR – 50-feet is typical setback but site may be exempt from setback requirement since Katherine Thomas Hall and Putnam Hall existed prior to 2004 (therefore “Maintenance of Effort” does not apply) per WDNR Runoff Management Code NR 151.

- Top of Channel (OHWM) Setback to Impervious Surfaces per City of Eau Claire – 40-feet per City Storm Water Ordinance Code 19.10.



WETLANDS AND TOP OF CHANNEL

Chippewa River Floodplain

The Chippewa River, located north of the project site, has a mapped floodplain per FEMA. The floodplain consists of the 100-year floodway (area of moving water during the 100-year flood) and a 100-year floodfringe (area flooded but not conveying moving water).

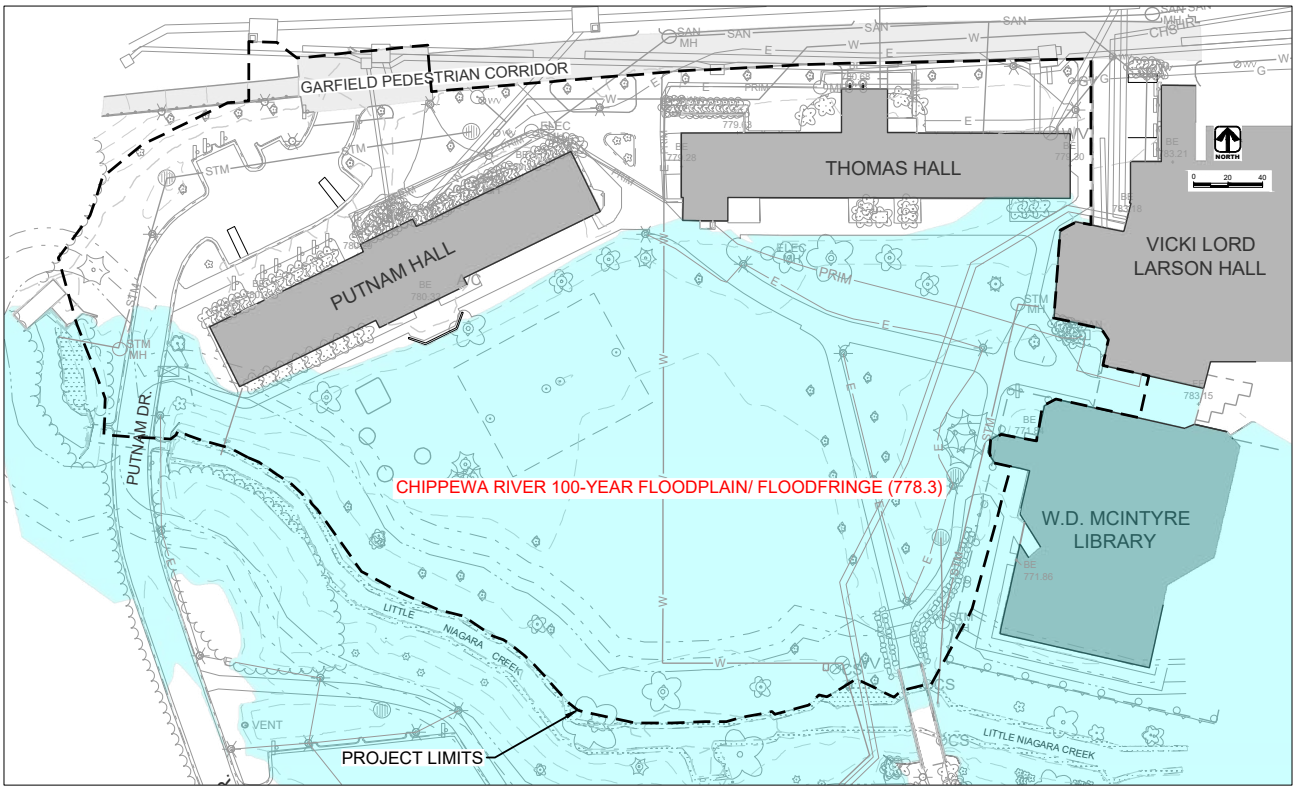
The floodway follows the Chippewa River bank, and is mapped by FEMA just south of the Garfield Pedestrian Corridor. However, the FEMA mapping does not follow actual site topography. As defined by site topography and FEMA's flood elevation data, the floodway boundary is located north of the Garfield Pedestrian Corridor. This revised floodway line has been documented with the City of Eau Claire, as they maintain documents for FEMA within the City limits. Therefore, there is no project impact to the Chippewa River 100-year floodway. Note that flood maps in this report may differ slightly from published FEMA maps because they apply FEMA flood elevations to actual site topography.

The Chippewa River floodfringe includes the area bordering Little Niagara Creek that would be flooded if the lower campus floodgates were left open during the 100-year flood on the Chippewa River, and Chippewa River floodwaters backed up into Little Niagara Creek. This floodfringe is partially on the proposed building site and at the elevation of the 100-year flood at the confluence of the Chippewa River and Little Niagara Creek. Construction is allowed within the floodfringe, but 2-feet of fill is required at building floor elevations. City of Eau Claire interpretation of 2-feet of fill has not considered building "floor" thickness to be considered fill. Therefore, it is currently planned for the First Floor Elevation (FFE) of the proposed building to be 3-feet above the 100-year flood elevation. In addition, it is required that fill be placed within 15-feet around the building first floor footprint to an elevation of one foot above flood elevation, and basements are not allowed.

The proposed building meets these fill requirements and the required elevations:

Chippewa River 100-year Flood Elevation	778.3
15 Feet around First Floor Footprint Elevation	779.3
First Floor Elevation	781.3

To meet these elevations, approximately 21,000 cubic yards of fill are required for the site.



CHIPPEWA RIVER FLOODPLAIN

Little Niagara Creek Floodplain

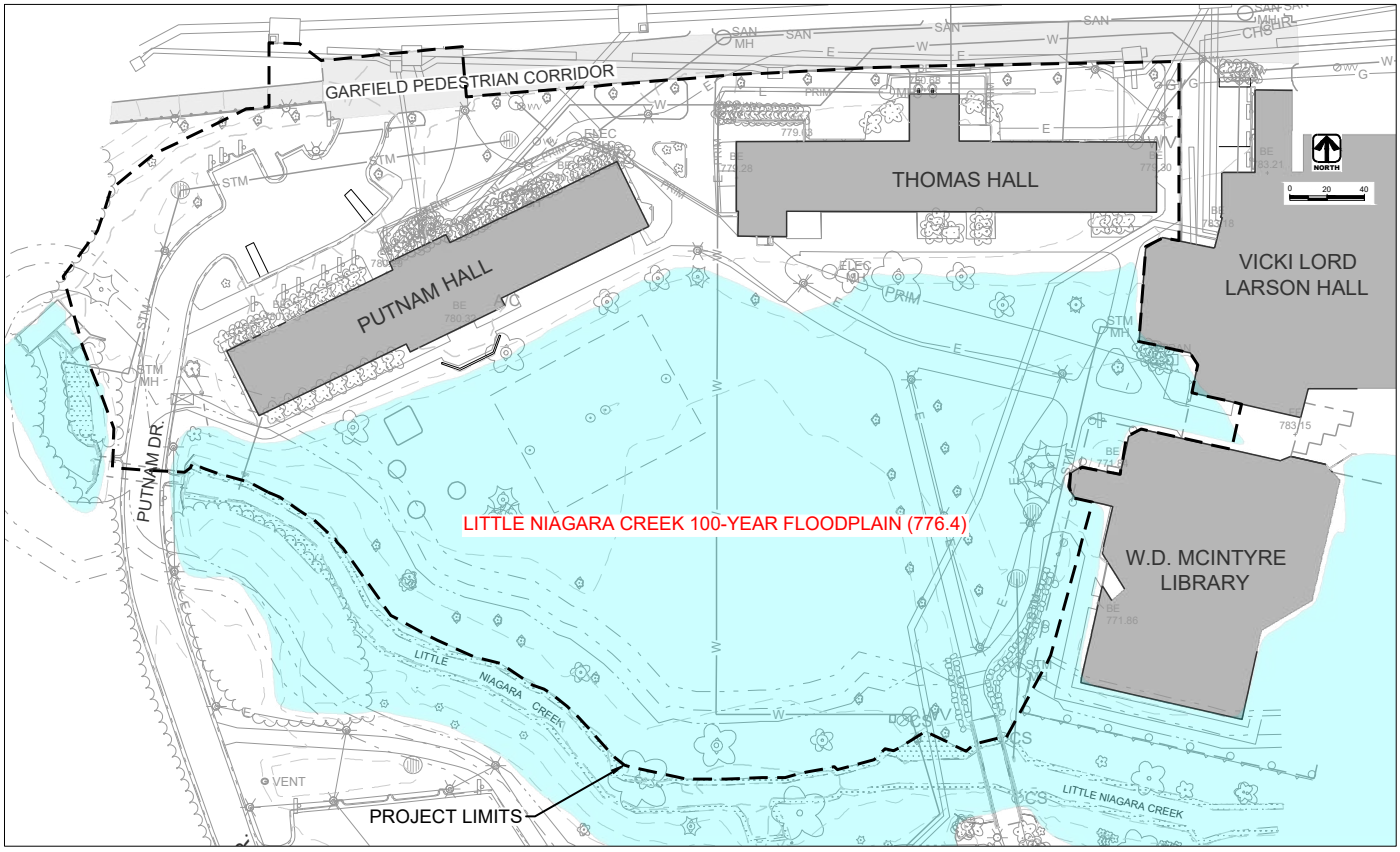
Little Niagara Creek, located south and west of the project site, is not a FEMA-designated flooding source and is only regulated as Chippewa River floodfringe. However, Little Niagara Creek does convey runoff from its own watershed and was studied, to understand the impacts of the proposed project on flood elevations when the flooding originates on Little Niagara Creek.

The analysis was conducted for a 100-year flood originating in the Little Niagara Creek watershed during a lesser (10 year) flood on the Chippewa River. In this situation, flooding along Little Niagara Creek at the project site would be caused primarily by moving water in Little Niagara Creek. The Putnam Drive culverts downstream of the project site would cause significant ponding in the project area, but the flood elevation produced by the 100-year flood on Little Niagara Creek floodplain is still lower than the Chippewa River flood fringe elevation in the project area.

Chippewa River 100-year Flood Elevation at Project Site	778.3
Little Niagara Creek 100-year Flood Elevation at Project Site	776.4

Therefore, the proposed fill for the project site meets City requirements for the regulated Chippewa River floodfringe and provides for a larger 3.9-foot differential between the unregulated Little Niagara Creek floodplain elevation and the top of fill.

Placing fill in an area that conveys moving water during Little Niagara Creek's 100-year flood has the potential to increase flood elevations elsewhere along the creek. Therefore, the impact on flood elevations of building within the Little Niagara Creek floodplain was evaluated as part of the study. The analysis was conducted using the US Army Corps of Engineers HEC-RAS model and indicated that the proposed building and surrounding fill would raise the 100-year water level in Little Niagara Creek upstream of the project site a maximum of 0.03 feet. This increase produces no detectable change in the mapped floodplain area, and in our professional opinion it is not significant relative to the expected accuracy of the model or input data. Modeled flood elevations would be expected to be similarly or more sensitive to factors such as landscaping/planting, debris accumulation or erosion during high flows, changes in City storm sewer runoff, and the future use of the Phillips Hall site.



LITTLE NIAGARA CREEK FLOODPLAIN

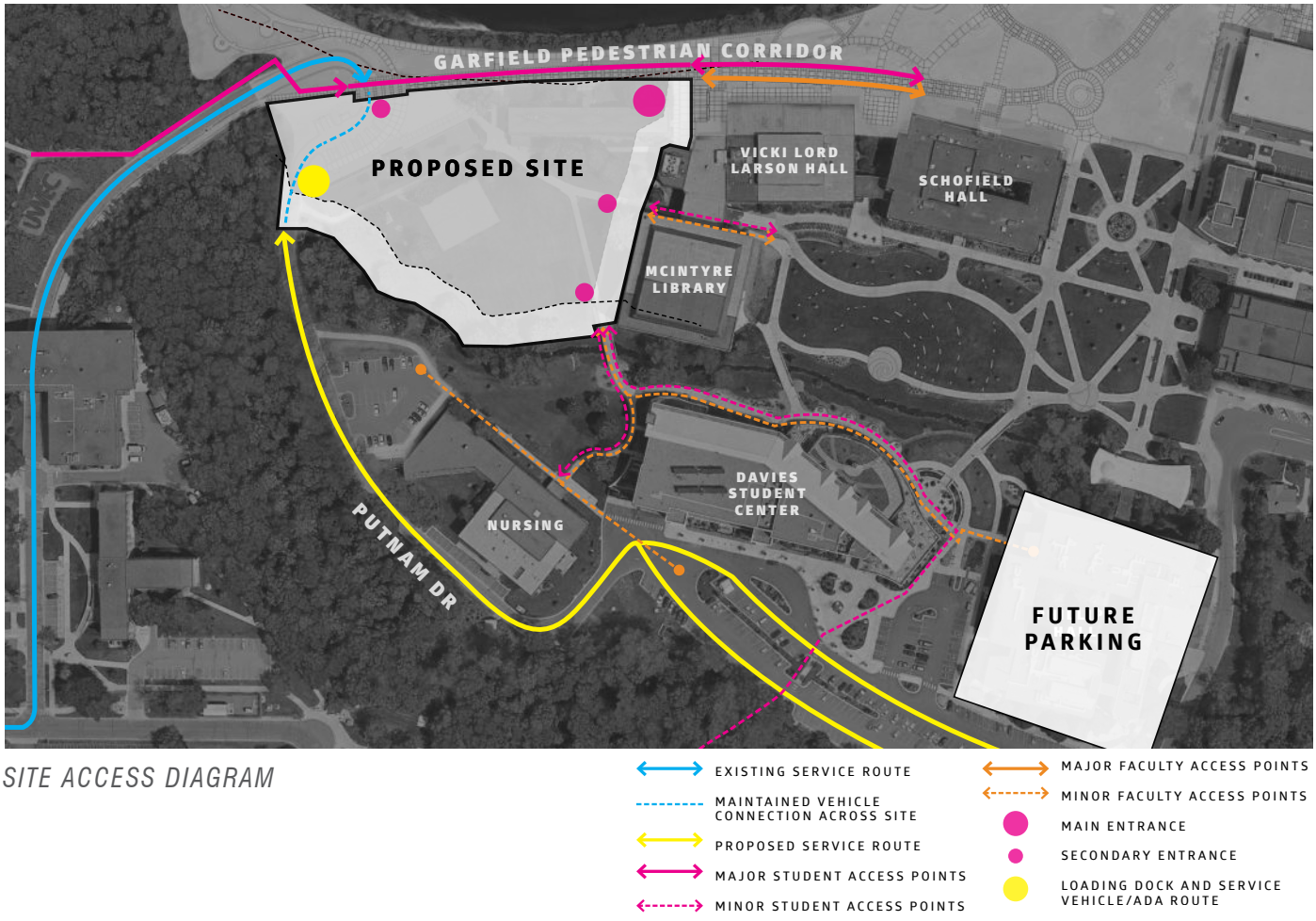
3.2 TRANSPORTATION/CIRCULATION

Bus and Vehicular Access:

Two bus routes serve lower campus, but do not currently run along the Garfield Pedestrian Corridor to the north or Putnam Drive to the west. The University Wisconsin-Eau Claire team had discussed the potential expansion of a bus route to the Garfield Pedestrian Corridor, but it was decided to exclude that study from this project. The closest bus stop is located at Centennial Hall on the number 9 and 19 bus routes.

Along the western side of the site, Putnam Drive serves as the main vehicular connector to the rest of lower campus, but functions as service and limited parking for the adjacent dorms. The existing vehicular access to the site is limited due to restricted access to Upper Campus and service-vehicles-only at the pedestrian mall on the Garfield Pedestrian Corridor.

Proposed vehicular connections will honor the existing location of access off Putnam Drive and will be utilized by service vehicles and science labs for loading and unloading. The site will have 2 ADA spaces, with one of those being a van accessible space, and an additional 2-4 spaces that will be later defined by campus. The proposed service area will accommodate two compactors (one trash, one recycling), two 2-yard dumpsters (for compost), a large generator with approximate dimensions 10'x37', a 10' diameter space for a nitrogen gas tank, a 4'x5' pad for a gas meter, and a loading dock that accommodates two vehicles. The loading area will also have 1-2 spaces for "trucksters" adjacent to the building that will fit a vehicle approximately 5' wide by 11' long. The pavement adjacent to the loading dock area will accommodate "Y" turning movements for a 40' box truck and a 42.5' fire truck with aerial apparatus of a 110' ladder and 20' wheelbase. It was requested by the Sciences staff to also accommodate a turnaround movement for a suburban with a trailer for ease in maneuverability for students driving campus vehicles for lab work. There will be an associated layover lane, adjacent to the loading area, that will function as additional loading/unloading zone for lab materials. Life safety services were planned for Putnam Drive to the Garfield Pedestrian Corridor and will serve as the main fire lane for access to the west and north faces of the building.



SITE ACCESS DIAGRAM

Pedestrian and Bicycle Access:

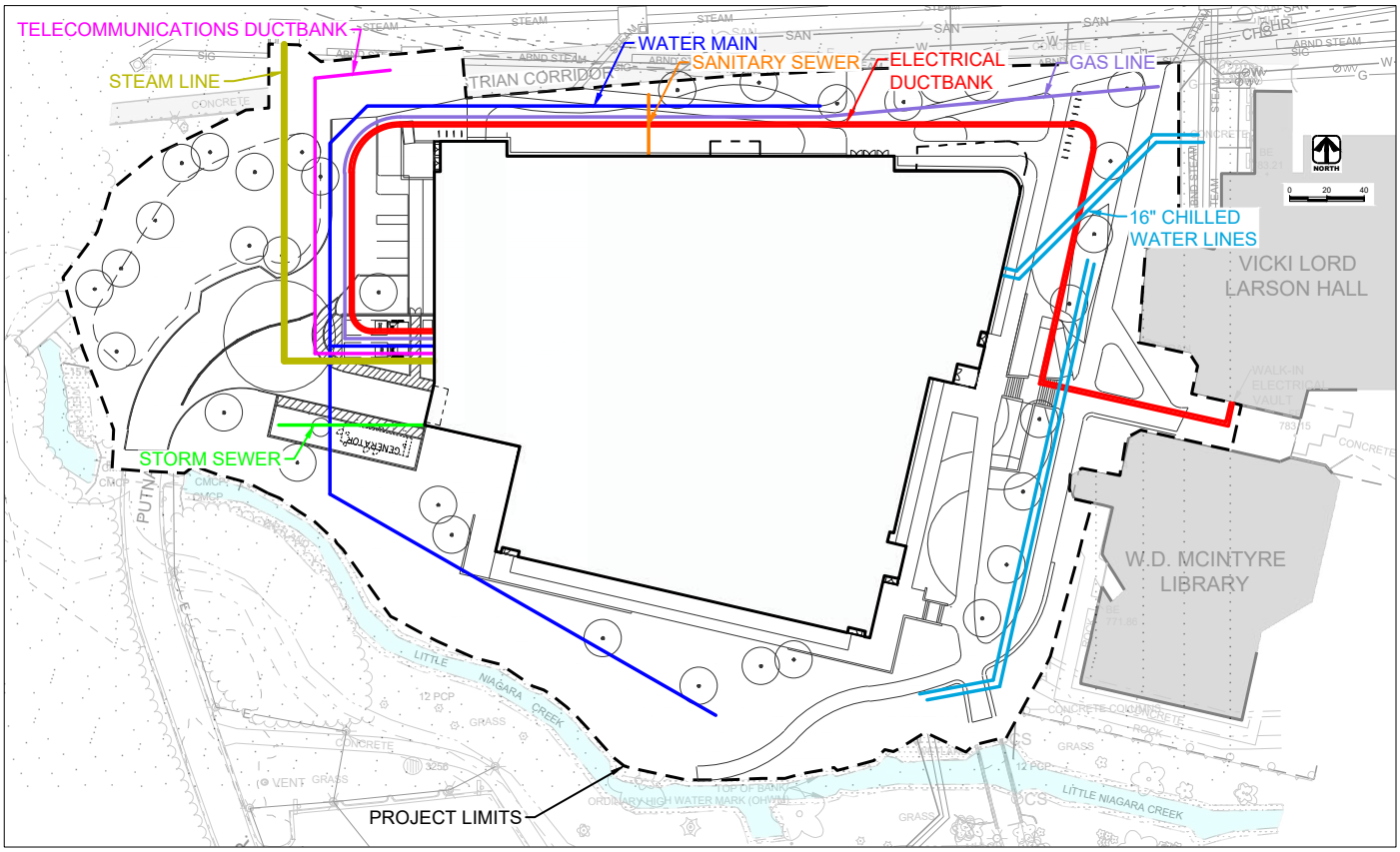
Existing pedestrian and bicycle traffic flows along the Garfield Pedestrian Corridor's new pedestrian mall with spaces for students such as outdoor classrooms, an amphitheater, seating, bicycle parking, plantings, lighting, and specialty pavements. A significant source of pedestrian traffic comes from Upper Campus via the northwest corner of the site and flows along the northern edge of the site via the Garfield Pedestrian Corridor. Additional pedestrian and bicycle connections occur at the access points under McIntyre Library to the east and from a footbridge to the southeast. Students connecting under McIntyre Library have noted significant winter winds sweeping through the channeled area. Pedestrian connections from the southeast corner of the site capture students from the Davies Student Center and connect them to the Garfield Pedestrian Corridor via a small pedestrian bridge spanning Little Niagara Creek.

3.3 CIVIL UTILITIES PLANS

Water

Existing: The existing water main that services the project area is located north of the proposed building, running east-west beneath the Garfield Pedestrian Corridor, and extends north-south through the project site. This is a campus owned looped water main, ranging in size from 8" to 10" diameter, connecting to the City of Eau Claire water system.

Proposed: The water main that extends north-south through the project site is directly beneath the proposed building. This main will be removed and a new loop will be extended from the Garfield Pedestrian Corridor water main north of the site, around the west side and south sides of the project site, connecting to the existing loop near the southeast corner of the project site. It is anticipated that the water main will be a maximum 10" water main, with a service to the building along the west side of the building, north of the loading dock, to the planned mechanical room. Flow and pressure testing will be completed in future project phases.



SITE UTILITIES PLAN

Storm Collection and Treatment

Existing: Existing discharge of storm water from the project site is to the Chippewa River, located north of the project site and north of the Garfield Pedestrian Corridor and to Little Niagara Creek, located adjacent to and south of the project site. Little Niagara Creek discharges to the west to the Chippewa River.

Proposed: Storm runoff from the project site will be treated to meet WDNR, City and DFD sustainability requirements, when feasible. The storm water runoff will not be detained for rate control, as both WDNR and City require no detention to manage the Chippewa River flood elevations caused by the large watershed area. This allows runoff water from the site to be discharged prior to the rise in river elevations from upstream rain events. The storm water runoff will be treated for quality, meeting WDNR and City requirements for removal of 40% total suspended solids and targeting removal of 80% total suspended solids for DFD sustainability requirements. The approximate area needed for storm water quality treatment is 5,000 square feet, and this is planned for with the proposed site plan.

Storm water will be discharged to either the Chippewa River or Little Niagara Creek. There are existing storm sewers beneath the Garfield Pedestrian Corridor that discharge to the Chippewa River that may be utilized for the areas north of the building. It is anticipated that the roof water will discharge to the Little Niagara Creek, as well as treated site runoff from the west, south and east sides of the project site.

Sanitary

Existing: The existing sanitary sewer main that will discharge wastewater from the site is located to the north of the project site, beneath the Garfield Pedestrian Corridor. The sanitary sewer main is a 10" sanitary sewer that discharges to the City of Eau Claire sanitary main east of the project site.

Proposed: A maximum 10" sanitary sewer lateral will be extended from the existing sanitary sewer main beneath the Garfield Pedestrian Corridor to the proposed building, along the north side of the project site. A sampling manhole is anticipated.

Gas

Existing: An existing Xcel gas main is located northeast of the project site, just south of the Garfield Pedestrian Corridor.

Proposed: The Xcel gas main will be extended by Xcel Energy to the west side of the building, parallel with the other utility extensions in this area. A gas meter will be located adjacent to the building entrance.

Other Utilities

See Division 6 – Building Systems and Descriptions for discussion of site steam, chilled water, electrical and telecommunications systems.

3.4 SITE AND LANDSCAPE

The existing site hosts recreational activities that support the two adjacent residence halls on lower campus. Volleyball, yard games and passive recreation are the current programming that occur in the flat, open lawn space to the south of the existing buildings. Bike racks, picnic tables, and trash receptacles are existing site furnishings and many of these furnishings have been identified by campus for salvage and reuse. Most of the existing landscape typology is mown lawn and canopy trees. Lawn extends down to edges of Little Niagara Creek with a few significant existing trees along the creek and adjacent to the existing buildings and pathways. Existing planting beds are focused at the building façade and along the Garfield Pedestrian Corridor.

3.5 EXISTING BUILDINGS ASSESSMENT

The proposed project includes the removal of two existing residence halls to make room on the selected site for the new science building, and also includes the removal of the existing Phillips Hall Science Building, making way for a proposed parking lot expansion for additional lower campus parking.

Residence Hall 1

Katherine Thomas Hall was built in 1955. It is a 4-story residence hall that houses 136 total beds. The floor plate is approximately 8,672 GSF, and is 225 feet in length.

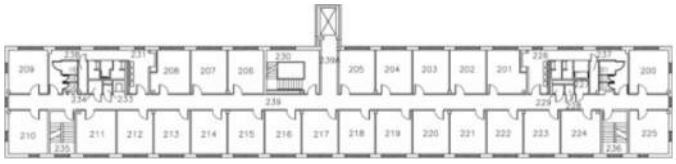
The exterior walls of Thomas Hall are made up of face brick with masonry back-up. There are stone window sills that wrap around the building. There are concrete block interior partition walls.

Structure

There is a combination of concrete and concrete masonry footings that vary in depth, but typically extend four feet below the ground elevation. The floor structure is concrete joists that span from the exterior wall to the interior hallway, where there are two concrete beams on either side of the hall for the full length of the building. The roof structure is made up of steel joists with a 2-inch concrete plank topping. There is a main steel w-shape beam down the center of the building in the long axis. The roof was originally built-up roofing.

Existing MEP Systems

Steam, water and sanitary services are included. Storm sewer and sanitary pipes are under floor. There is an underground tunnel for steam distribution.



Residence Hall 2

Putnam Hall was built in 1957. It is a 4- story residence hall that houses 244 total beds. The floor plate is approximately 9,082 GSF, and is 233 feet in length.

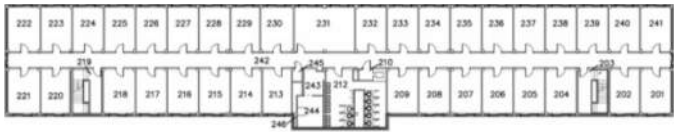
The exterior walls of Putnam Hall are very similar to Thomas Hall. They are made up of face brick with masonry back-up. There are stone window sills that wrap around the building. There are concrete block interior partition walls.

Structure

The concrete structure is slightly different than Thomas Hall. There is a combination of concrete and concrete masonry footings that vary in depth, but typically extend four feet below the ground elevation. The floor structure is a one-way solid concrete slab with slab bands. The roof structure is the same as the floor structure. The roof was originally built-up roofing.

Existing MEP Systems

The MEP Systems of Putnam Hall are very similar to Thomas Hall. Steam, water and sanitary services are included. Storm sewer and sanitary pipes are under floor. There is an underground tunnel for steam distribution.



Phillips Hall

The existing 192,250 GSF Phillips Hall Science building no longer fulfills the University's requirements for teaching the science curricula offered at UWEC.

Below is information from the 2018 feasibility study by BWBR.

Phillips Hall was constructed in 1963 and the original building was 88,000 square feet. It included the lecture hall and planetarium connected by an enclosed walkway, the four-story north classroom wing, and half of the five-story office wing to the east. The second project was a major addition in 1966. This addition doubled the office wing, and also added four stories of classrooms and labs to the west and south, which created the courtyard in the center. The most recent addition, completed in 2002, expanded the mechanical space by adding three mechanical towers next to the main stairwells at the corners.

The construction of Phillips Hall is a noncombustible concrete frame with the interior partitions and walls being constructed

of either masonry or noncombustible framing with gypsum board. The building seems to comply with Construction Type IIA allowable height and area requirements, including an allowable area increase for increased building frontage. The building is not sprinklered. The overall occupancy category is a B (Business) with some lecture halls and presentation rooms likely to be an "A" occupancy.

The exterior façade of Phillips Hall is made of both brick and precast panels. The lab/classroom wings to the north, west, and south are curved precast panels. The office wing to the east is constructed of insulated panels. The stairwells are brick clad composite masonry construction without insulation. The exterior windows are all original single-glazed panels in non-thermal aluminum frames. Some windows are also equipped with an operable sash to tilt out. The roof has been updated from its original asphalt. The majority of Phillips Hall has ballasted EPDM membrane over tapered insulation except the Planetarium wing which has recently been replaced with adhered EPDM.

MECHANICAL

Building is served by campus high pressure steam that enters the building on the south west side of the west building. The high pressure steam is routed through part of the building, then underground through courtyard area and then back into the building to the auditorium area. 6" HPS and 3" PC leave Phillips toward the north to connect the steam loop. 3" HPS and 1 ½" PC also exit Phillips to the north to serve Schneider Hall. Phillips has a PRV station in the northeast corner of the building to reduce the steam pressure down to low pressure steam which is distributed through the building to air handling unit coils and also used to provide hydronic heating water. The PRV station capacity is approximately 11,000 lb/hr. and was recently replaced as part of the Garfield Pedestrian Corridor site project. Phillips also has a PRV station at the main south mechanical room where the steam first enters the building. Within the room are a set of heat exchangers providing hydronic heating water for a portion of the building. The building has 12" chilled water pipes providing a majority of the building cooling. One air handling unit also has a DX chilled water coil with outdoor condensing unit. The total connected chilled water load of the air handling units is about 735 tons.

There are over 20 air handing units serving the building and over 30 exhaust fans. Much of the HVAC system was replaced during the 1999 project. There are (8) small units in the office wing of the building that were installed in a single office space due to space constraints. There are a couple large mechanical rooms that are two stories with return fans located very high.

PLUMBING

A 6" water service enters the building in Mechanical Room 129B and is reduced down to 4" with a water meter and bypass. The water pressure downstream of the meter was about 57 psi. A water softener is installed in this room to soften the water that is used for domestic hot water. Hot water is produced by a steam to hot water heat exchanger in Mechanical 129B. An instantaneous gas water heater is also located in the room and is used for backup during campus steam shut down. Sanitary and storm exit the building in several locations. An acid dilution basin is located under the stairs of the main building and is original to the building.

ELECTRICAL

The building is served by a 1200A, 2500A, and a 1200A series of cutler-hammer 480V switchboards. The emergency loads of the buildings are served by a 150KW generator. Transformers step down the voltage to local 208V distribution panels. All have been replaced in the last decade. Many panels throughout the building are older Square D panel boards while the newer addition has cutler-hammer panel boards. Existing panel boards have minimal spares and spaces available, but many circuits are utilized for lighting. Lighting throughout the building, with a few exceptions, is fluorescent lighting with no automatic controls or dimming. Exterior lighting was recently updated to LED.

The fire alarm system is a Notifier horn system that was updated within the last decade. Smoke detectors are present throughout the halls but sprinkler systems are only present in a few rooms.

STRUCTURAL FRAMING AND FOUNDATIONS:

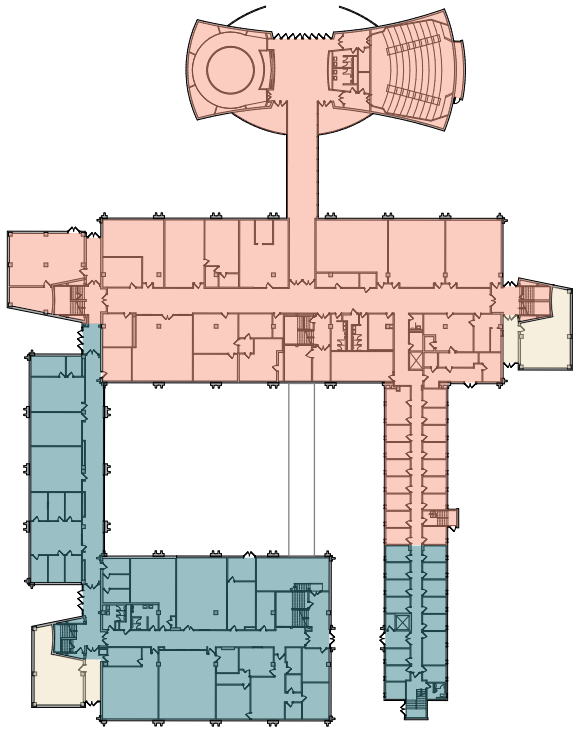
The main portion of the facility has a poured concrete structural frame and floor slabs, with precast concrete wall elements. The superstructure is carried by concrete columns spaced at 30'-0" on center and due to the nature of the existing soils, the columns are supported on piles and pile caps. The piles were compacted at a depth extending 20' below the bottom of the footing. The slab on grade is independent of the piles and was designed to bear directly on the upper soil layer which can result in some differential movement of the main floor slab. The typical floor-to-floor height between levels is 12'-0".

Phillips Hall

Graphics from UWEC Science Programs Feasibility Study

EXISTING PLANS

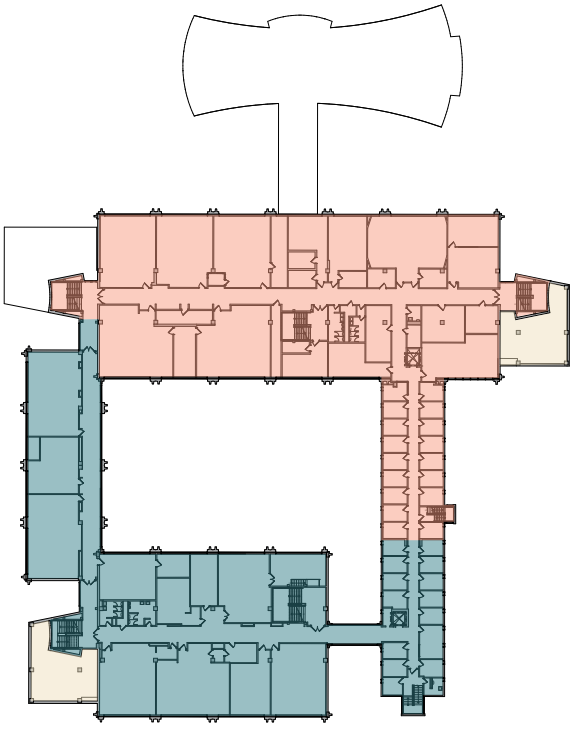
1963 ORIGINAL BUILDING
1966 ADDITION
2001 ADDITION



First Level

5 10 20 40

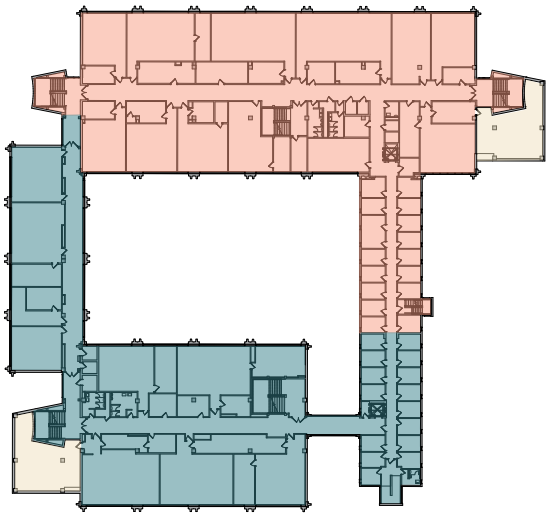
TRUE NORTH



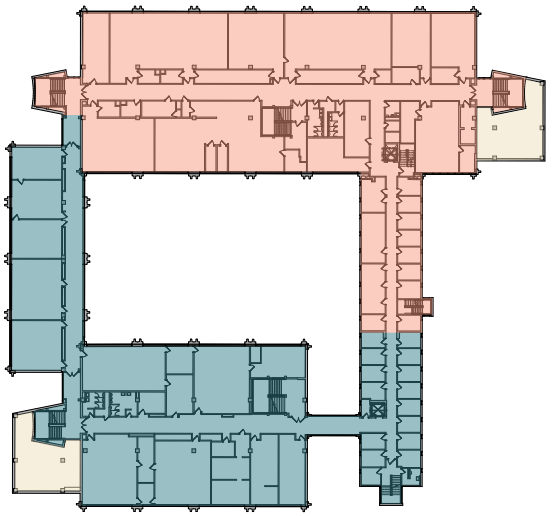
Second Level

5 10 20 40

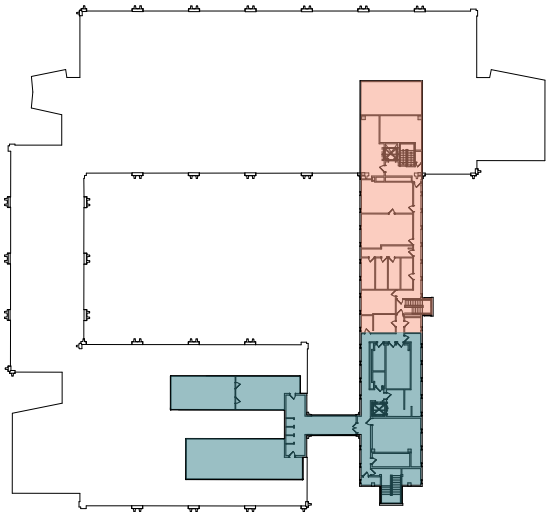
TRUE NORTH



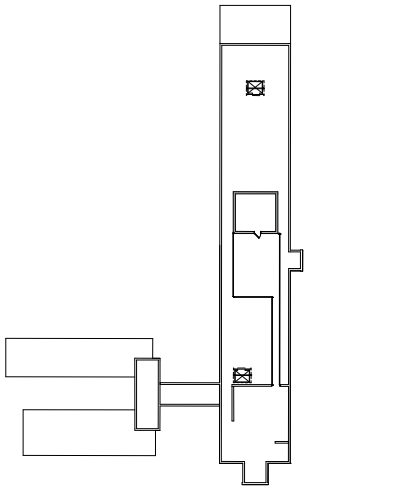
Third Level



Fourth Level



Fifth Level



Sixth Level

4.1 ENVIRONMENTAL IMPACT STATEMENT

The Environmental Impact Statement will be obtained by the Department of Facilities Development via a separate contract.

4.2 ZONING

The New Science and Health Science Building Project is proposed on the University of Wisconsin-Eau Claire Lower Campus in the City of Eau Claire. The University owned lands are classified as P- Public Properties District under Chapter 18.07 of the City's zoning code. The new building and associated changes to the lower campus are permitted uses per 18.07.020.G. The Project will need to be submitted to the City and follow their zoning approval procedure which requires payment of fee, public hearing notice, submission of application materials, presentation to commission and council, and approval of these governmental bodies for the proposed changes to the site. The Project shall be reviewed against general provisions in the zoning code for size and density, standards for streets and utilities, screening requirements, and off-street parking.

There was one virtual informational meeting with the City in early February 2021 to review the general size and early planning of the proposed Project. From this early meeting it is anticipated that the topics of interest to the City will be visibility and aesthetics of the new building from the Chippewa River, and the change in demand and number of available parking spaces.

Off-Street Parking requirements are found in Chapter 18.25.030.7, which states that university parking needs are unique. A parking study prepared and paid for by the applicant will be required to show the impact on parking and traffic on the entire campus as a result of this Project. This is anticipated to be completed in future design phases.

Bicycle parking requirements are found in Chapter 18.25.031, and quantity will be determined by Plan Commission based upon the plan submitted by the applicant.

The City will want to remain informed as the Project is further developed by future design phases. Future informational meetings, and formal review and approval by City Plan Commission and Council are anticipated.

4.3 HISTORIC PRESERVATION

The Project includes demolition of Putnam Hall (1957) and Katherine Thomas (1955) Residence Halls, and Phillips Hall (1963, addition 1968), none of which are known by A / E to be a Listed Property or Property eligible for Listing for Historic / Archaeological Status. The A / E did not investigate this topic with the Wisconsin Historical Society as a part of the Predesign study.

4.4 ACCESSIBILITY REQUIREMENTS

The Project will be designed to be in compliance with the code in effect at the time of design completion, including all relevant accessibility requirements for sites and new building.

4.5 SUSTAINABLE FACILITIES AND ENERGY CONSERVATION

The project team recognizes the DFD is committed to energy conservation and durable buildings.

The greatest cost of owning State facilities over their lifetime is the cost of energy to heat, cool, light and operate them, the goals of this project are to:

a) Achieve the highest energy efficiency and lowest energy consumption that life-cycle costing will justify

b) Incorporate the most energy-efficient materials, products, equipment and systems consistent with Program and budget

c) Incorporate renewable energy technologies at the earliest possible stages of design whenever they are technically and economically feasible

d) Consider the impact on the utility infrastructure of the existing facility

e) Select environmentally responsible materials and products with reduced maintenance required

Process:

In order to meet the sustainability goals, the project team has created two separate means of tracking the sustainable strategies for the Project.

DFD Sustainable Guidelines Matrix

The project team is following the DFD Sustainability Guidelines for Capital Projects - V2 - Oct 2021. See Appendix C.

To this end, the project team has created the DFD Sustainable Guidelines Matrix to track each of the mandatory and encouraged measures. This matrix is included in the appendix and shows the current intent for each measure. The matrix will be updated as the design progresses, and it is the expectation that the Project will comply with this new version of the DFD Sustainability Guideline, with the caveat that DFD may allow some relief where a specific requirement may not be achievable due to the building type. DFD sustainability measures are included in the construction budget.

UWEC LAB ECM List Master Sustainable Strategies

During the Visioning meetings with the project stakeholders, it was identified early that sustainability is one of the guiding principles critical to the campus strategic plan and the success of this Project. The project team created a second matrix, the UWEC LAB ECM List Master Sustainable Strategies that tracks many additional measures above and beyond the DFD Sustainability requirements for potential inclusion into the Project. See Appendix C.

The matrix reflects the project team's experience on similar projects, DFD comments, and stakeholder input to create a series of Sustainable and Energy Conservation Measure bundles, with associated budget impacts, that will be used to establish a sustainability allowance for the Project. The matrix organizes effective strategies for consideration and decision in future design phases where an energy model will be created specifically to test these strategies. This matrix currently shows which measures are assumed to be in the Project and which require more study before a decision is reached. Over 80 measures have already been rejected and are no longer listed in the matrix. Measures are arranged in (5) preliminary bundles that will be further examined and tested to find which combination of strategies will best achieve the sustainability goals and fit within the established Project budget.

In order to create the Bundles, eight specific measures were studied in more depth. These measures were understood to have a greater cost or spatial impact on the project. These strategies also affect many of the other strategies under review, so they were studied to provide more information for the entire project team. These studies are included in the Pre-assessment study of Energy Conservation Measures located in Appendix C.

Five bundles of Measures were selected from the collected information. These bundles, their description and initial estimated budget impact are as follows:

Bundle 1 Base: Represents base measures included in a typical DFD project as outlined by the DFD Sustainability Guidelines. *These strategies are included in the base project estimate, and do not use the Sustainability allowance. This would save the project approximately $4,100,000 (sustainability allowance).*

Bundle 2 Base + %: Represents the Base measures, plus additional measures included under the sustainability allowance for the project. *These strategies are included in the sustainability allowance ($4,100,000) and do not add to the project budget.*

Bundle 3 Geo: Represents measures in the Base and the sustainability allowance, plus the addition of the geothermal system and the credits that would optimize it. *These strategies with the Geothermal System add approximately $9,230,374 escalated to 2023.*

Bundle 4 Mod: Represents measures in the Base and the sustainability allowance, plus an aggressive approach that does not include the Geothermal system, but focuses on other energy use reduction strategies. *These strategies add approximately $6,117,834 escalated to 2023.*

Bundle 5 Best: The package that would include the majority of the measures (including Geothermal) and would provide the most efficient solution. *These strategies add approximately $18,711,035 escalated to 2023.*

LEED Certification will not be pursued by this Project using project funds, but might be done separately by the Campus at their discretion.

4.6 COMMISSIONING

It is anticipated that DFD will solicit and contract for a Commissioning Agent during the early design phase, who will become a contributor to the Design Team as the Commissioning Authority, and who will prepare project specific documents to be included in the bid documents that address the DFD Commissioning requirements for the Project. Level One and Level Two Commissioning will be required.

4.7 HAZARDOUS SUBSTANCES (BUILDING DEMOLITION)

The presence and location of hazardous materials is inventoried in the State's database titled Wisconsin Asbestos and Lead Management System (WALMS). In general, asbestos-containing materials that will require abatement prior to demolition of Katherine Thomas Hall, Putnam Hall, and Phillips Hall will be addressed outside of this project. DFD will commission a separate project for the abatement and demolition of the existing buildings that will be removed to complete this Project.

4.8 INFORMATION TECHNOLOGY

Information Technology is primarily addressed in Division 6. Noteworthy here is that the Campus has committed to a particular system for campus security and door hardware which will require Class 1 Notice in order to single specify and bid the components required by this Project so they integrate with the existing system.

4.9 HEALTHY LEARNING ENVIRONMENT

A healthy learning environment is a broad concept that includes several guiding principles embodied into the planning and design as a matter of standard practice of the Design Team, and also embraced by the University and students as documented in the Vision and Guiding Principles document prepared at the onset of the Pre-Design study through a series of workshops facilitated by Potter Lawson and HOK. There is not a formal certification, such as WELL Building Standard, that will be pursued by the Project at this time.

4.10 EQUIPMENT

Fixed Equipment and laboratory casework required for the Project shall be coordinated and documented by the A/E and provided by the Contractor, and includes but is not limited to:

- Laboratory casework and related laboratory accessories
- Laboratory fume hoods (FH) and biological safety cabinets (BSC)
- Laboratory sterilizers and vivarium cage washing equipment
- Environmental cold rooms and dark rooms
- Other new fixed equipment as determined during future design phase for department specific needs
- Relocation of existing equipment to be moved from Phillips Hall and re-installed in the new building as determined during future design phase for department specific needs
- A/V System equipment

Moveable equipment and furnishings shall be specified and provided separately by the University System from a project line-item allowance established for this purpose. The following are items identified in the Pre-Design Report. Detailed lists shall be developed during future design phases:

- Office furniture – Design Team will coordinate connections for power and data
- Informal Seating – provided by the University, A/E to coordinate the location and power requirements
- Moveable laboratory equipment and furnishings – the University provided equipment lists will be further developed and coordinated by the A/E, to list existing items to be moved or newly procured for the new building fit out.
- Vivarium caging
- Refuse containers

Space planning layouts showing design intent for the movable equipment will be shown on the floor plans as the design is further developed in future phases.

Specialized expertise design-build construction for Planetarium: The design and construction of the planetarium is proposed to be provided using a design-build approach with a qualified specialty design-build contractor who will be responsible for completing the technical design and turn-key construction of this space to meet the User Agency requirements as determined in future design phases. The A/E will develop the aesthetic intent and define the envelop of this "gray box" space as it integrates into the overall building interior design, as a collaborative effort with the specialty contractor and engineering consultant team in such a manner that both aesthetic and technical space needs are coordinated for the final design. An example of a potential vendor for this design build scope is Spitz, Inc.

https://www.spitzinc.com/home/about-spitz/
https://www.spitzinc.com/planetarium/planetarium-design/
https://www.spitzinc.com/planetarium/scidome/

Qualification and selection process is proposed to occur relatively early in the Preliminary Design Phase as per a process accepted

by DFD for this specialty scope.

A narrative description of the type of planetarium space envisioned by the User Group for this Project is included in the appendix materials.

Specialized expertise design-build construction for Greenhouse: The design and construction of the greenhouse is proposed to be provided to the Project using a design-build approach with a qualified specialty design-build contractor who will be responsible for completing the technical design and turn-key construction of this space to meet the User Agency requirements as determined in future design phases. The A/E will develop the aesthetic intent and define the envelop of this "gray box" space as it integrates into the overall building design, as a collaborative effort with the specialty contractor and engineering consultant team in such a manner that both aesthetic and technical space needs are coordinated for the final design. An example of a potential vendor for this design build scope is LLK Greenhouse Solutions, Inc.

https://llklink.com/about/industries-served/higher-education-and-research

Qualification and selection process is proposed to occur relatively early in the Preliminary Design Phase as per a process accepted by DFD for this specialty scope.

Specific detailed requirements for the greenhouse will be developed with the User Group in future design phases.

5.1 OVERVIEW

The DFD Project Manager, UW Systems representatives, UW-Eau Claire Chancellor and Provost, UW-Eau Claire Building and Steering Committees and the Design Team have engaged in a collaborative series of workshops and meetings to design the new Science and Health Science Building. During three initial visioning sessions, the collective goals for the building were established, and the design work that followed was in support of those guiding principles. Establishing this early collective vision created a framework by which to evaluate each potential design solution.

Please see Section 2.2 Goals and Objectives for a list of guiding principles.

The building design has been developed in tandem with the programming phase to create a building that supports the client's aesthetic goals and meets their programmatic space needs. Regular bi-weekly meetings were held to evaluate design progress and offer feedback on the design direction. This process established a design vision for the project, which will be further refined in design development.

5.2 APPROACH

The following factors heavily influence the final Pre-Design Study massing and footprint:

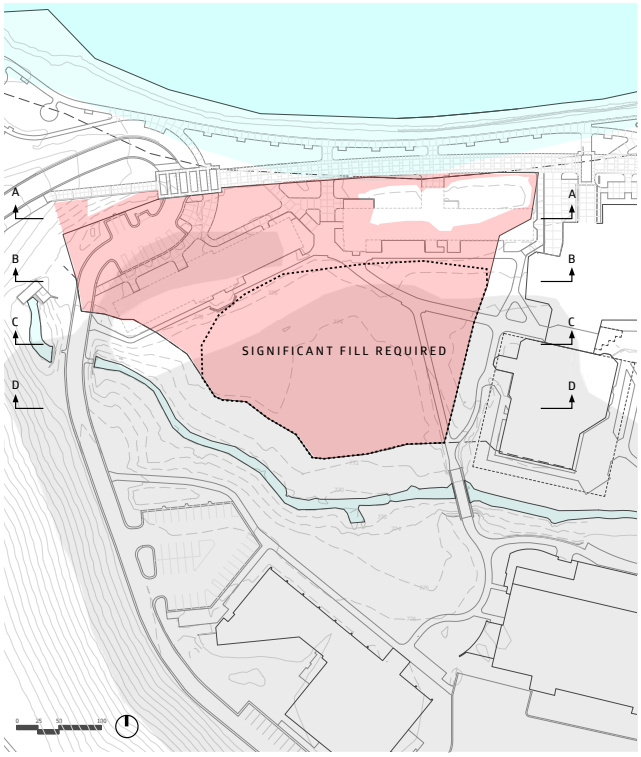
Spatial Need:

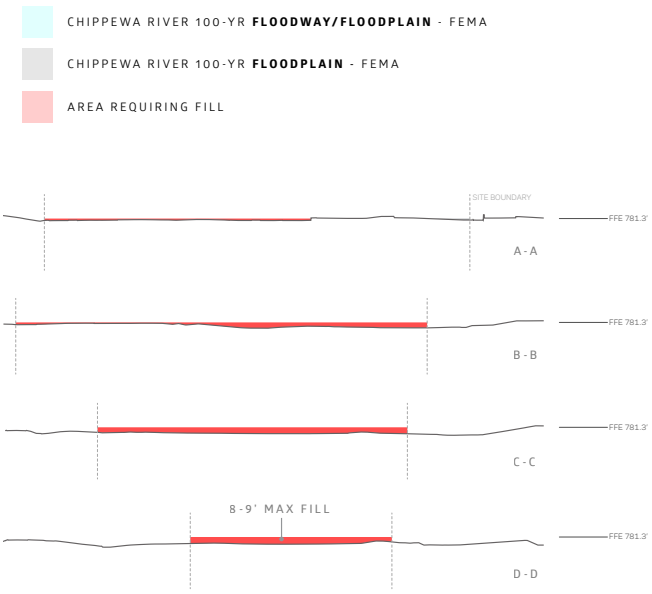
As a result of the design team's programming exercise and client input, the required building size is 184,000 NSF and 330,000 GSF.

Site Constraints:

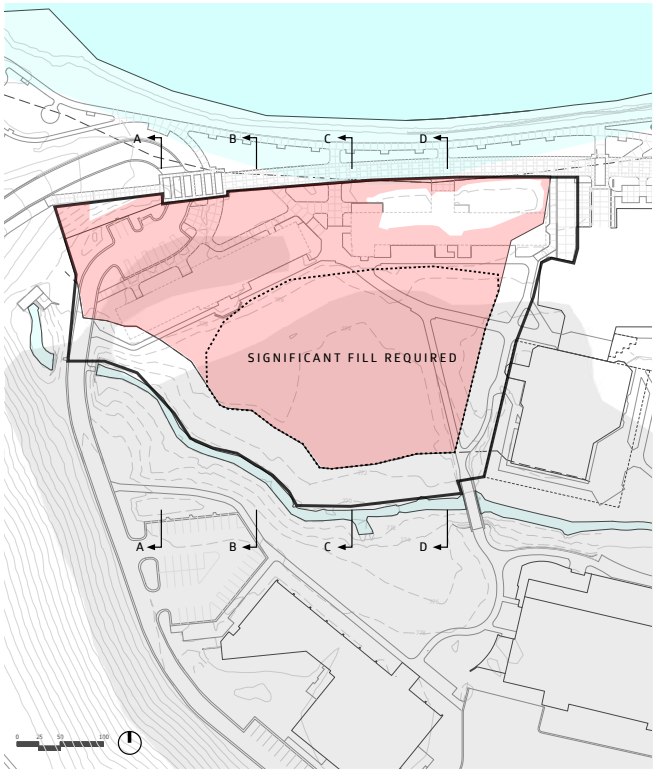
The site for the new Science and Health Science Building is positioned within the Chippewa River Floodplain. As such, the FFE of Level 1 has been set at 3' above the 100-year flood mark. Generally, the site goes from a high point on the north side, to a low point on the south side. The further south on the site the building is, the more fill is required.

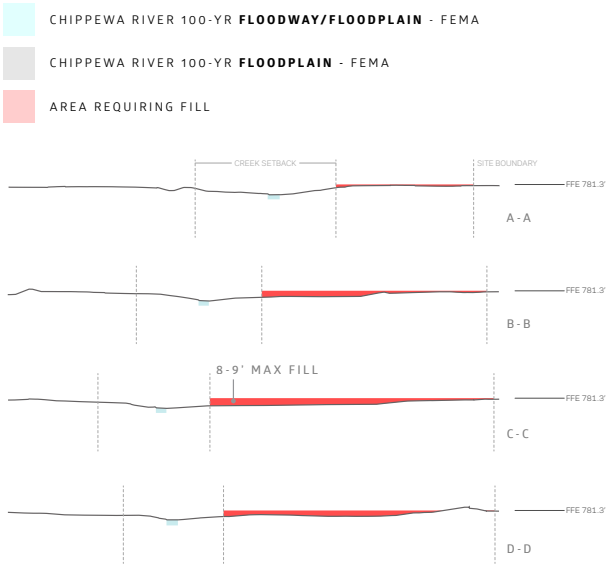
As design began, it became critical to understand the site's buildable area since the programmed area required a large portion of the available land.





SITE FILL DIAGRAM E-W





SITE FILL DIAGRAM N-S

North Setback:

Most of the utilities are located along the Garfield Pedestrian Corridor. To avoid disturbing the newly modified Garfield Pedestrian Corridor, a utility corridor is established on the site's north edge. The placement of this Utility Corridor requires a minimum 22' building setback near the intersection of the Garfield Pedestrian Corridor and Putnam Road. This setback increases from west to east.

South Setback:

The Little Niagara Creek requires a 50' setback from the Ordinary High Water Mark of the creek.

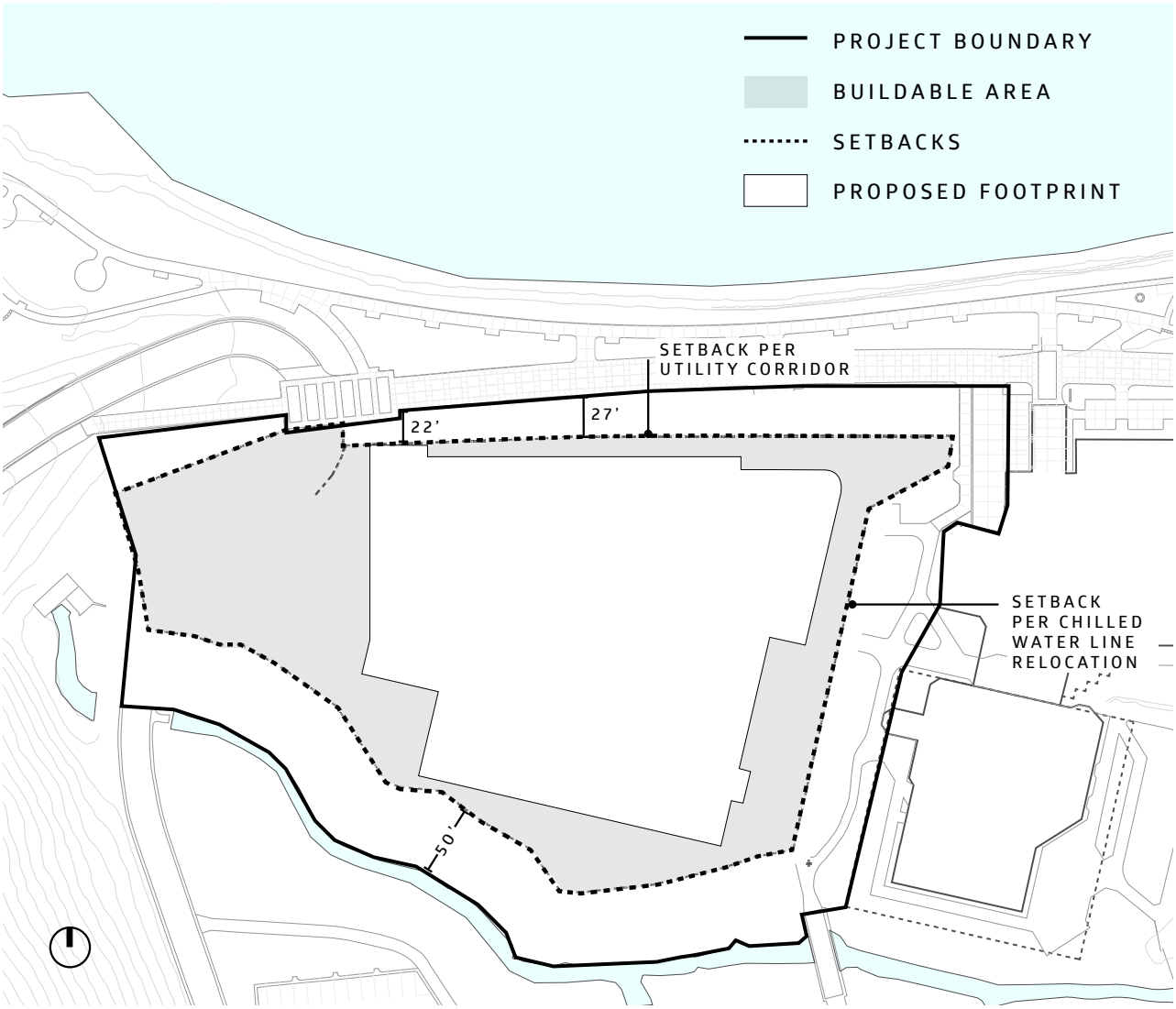
East Setback:

The relocated Chilled Water Line, along with grading, dictates the east boundary of the buildable area.

West Setback:

No formal setbacks are required on the west side of the site, but space to accommodate the road, dock, truck turning radii and parking accommodations set the building's placement.

See Division 3 - Physical Planning Issues for a more detailed description of the site constraints.



BUILDABLE AREA DIAGRAM

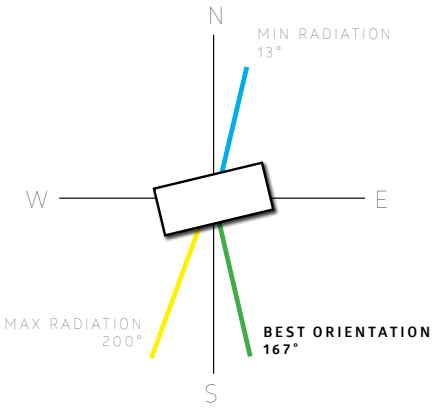
Sustainability:

In addition to referencing the DFD Sustainability Guidelines as a benchmark for the building and materiality, some initial climate analyses dictate the building siting and footprint.

An early climate analysis influenced the building siting and form. The site's optimal building orientation is at 167 degrees from north, with long north and south facades and minimized east and west facades. The north facade benefits from diffuse northern light, while the southern exposure allows for controlled heat gain in the cold winter months.

The suggested form is a relatively compact building shape that reduces overall facade area relative to volume.

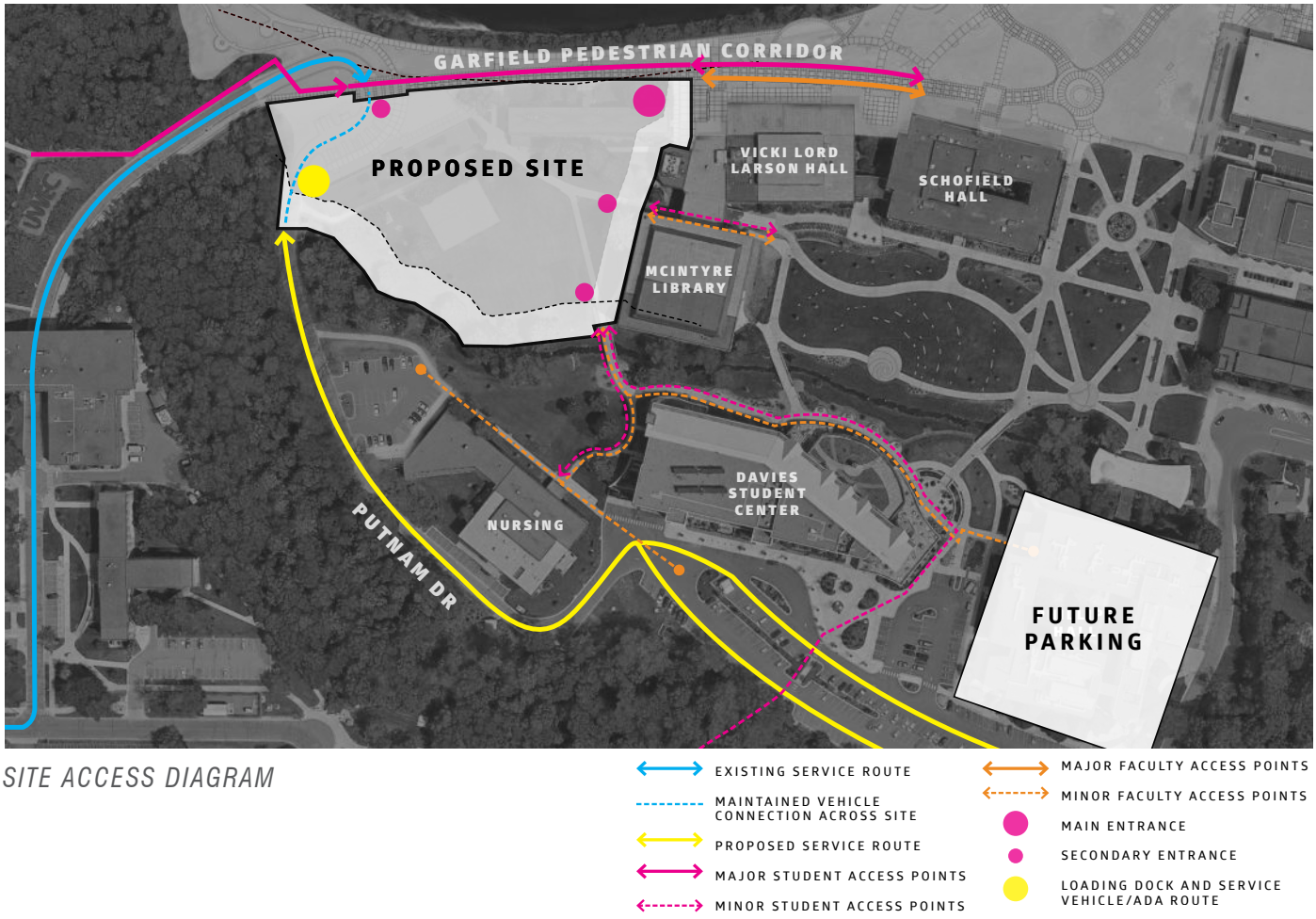
Given the site setback constraints, the building is sited in a near-optimal orientation with elongated north and south facades. The massing is kept compact while also allowing for ample daylighting throughout the plan.



OPTIMAL SOLAR ORIENTATION DIAGRAM

Building Access:

A site analysis was done to understand the flow of people and services to the site. Based on the analysis, access to the loading dock is from the west side of the site, off Putnam. The main entrance is located on the northeast corner of the site, with secondary entries on the northwest and southeast corners.



SITE ACCESS DIAGRAM

Daylight:

A key driver of the building massing is to provide access to daylight for as many lab spaces as possible. A split bar approach to massing is used on the constrained site to get light deeper into the plan.

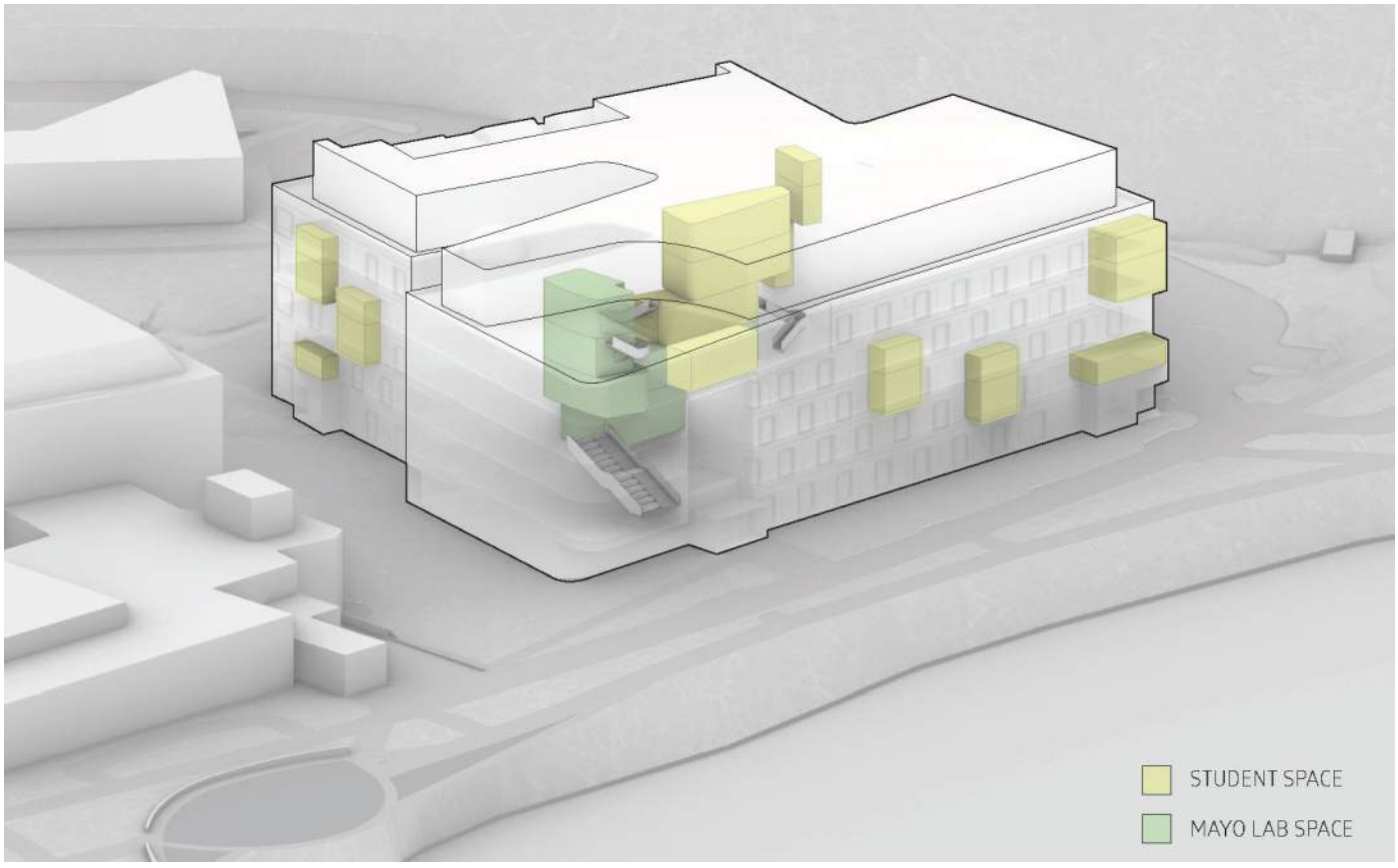
Shadow studies were conducted for the massing schemes to see how the new building would impact the surrounding campus and to study the potential for a greenhouse at grade. The studies showed that the site is too tight to fit an adequately lit greenhouse at grade, so it is located on the roof.

Access to Views:

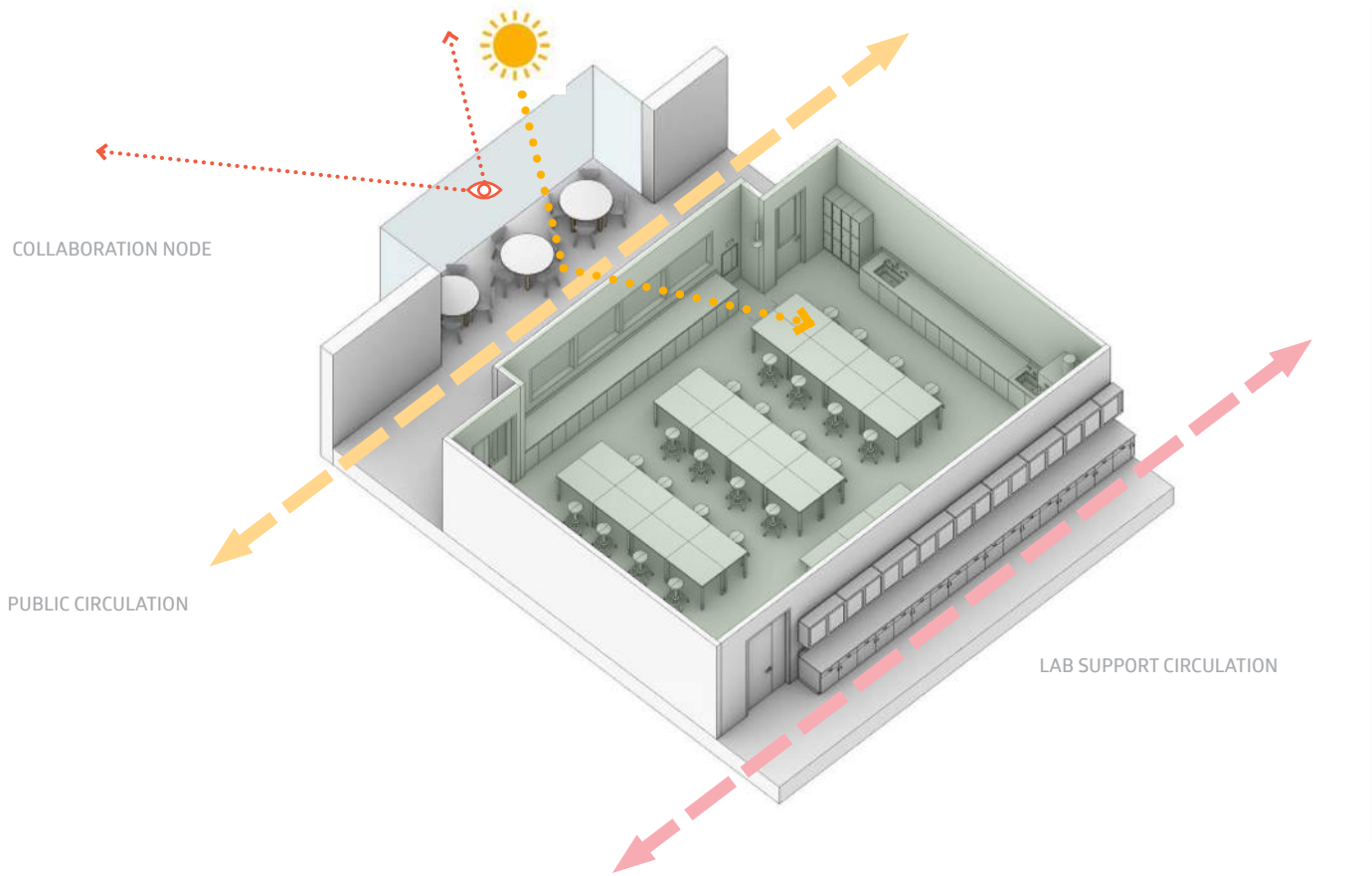
Views from the building are critical when locating the new Science and Health Science Building. Views to the river are a priority and are intended to be accessible to as many people as possible who passed through the building. In addition to the views of the river to the north, views along the south side of the building overlook the wooded hill. The massing is broadened on the north/south facades to maximize these desirable views.

Active Collaboration Zones:

One of the goals of the project is to enhance cross-disciplinary collaboration and chance encounters. Collaboration spaces are located throughout the building and provide a variety of environments. Most of the space is organized around a central hub of activity, with quieter break-out spaces sprinkled throughout the plan.



COLLABORATION SPACE DIAGRAM



LAB BREAKOUT SPACE DIAGRAM

5.3 DESIGN GUIDELINES AND ASSUMPTIONS

Campus Design Guidelines

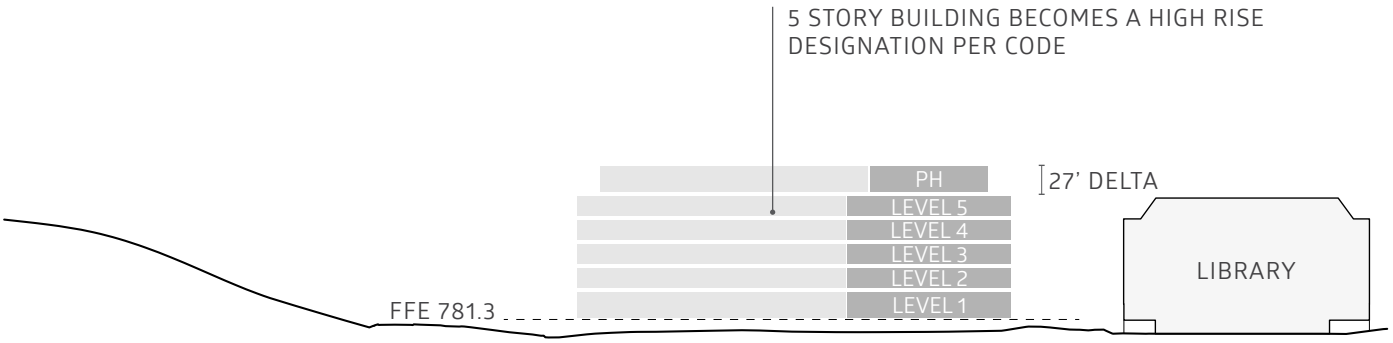
Style: Per the Campus Design Guidelines, the building will express current ideas on form, function, and aesthetics, versus adhering to an architectural style.

Scale: Careful consideration has been given to the building's scale and proximity to other campus buildings. The building is sited in a way to recognize the existing development patterns of the Garfield Pedestrian Corridor and neighboring buildings. The mass of the building is of a relatable scale to its neighbors to maintain a harmonious campus neighborhood. The building height is dictated by the amount of program and available buildable area. Campus representatives approved going beyond the 75' building height limit prescribed in the Campus Design Guidelines. The resulting building is approximately 27' taller than the neighboring McIntyre Library and sits comfortably below the hill of Upper Campus.

Walls: The exterior of the project is a combination of brick and glass, with the potential for a third accent material. Special attention has been given to creating a contemporary building that still relates to the surrounding campus buildings in materiality and facade composition. Further exterior facade studies will continue into the next phase.

Roof: Most of the roof is an enclosed penthouse for mechanical spaces. In addition, the roof contains the greenhouse, observatory, weather equipment and telescope platform.

Entrances: The main entrance is located on the northeast corner of the site, per feedback from Faculty and the student representative regarding pedestrian flows on the Lower campus. Secondary entrances are located on the northwest and southeast corners of the site to connect into the existing campus fabric. The main entrance is more prominent than the other two in the way it is expressed on the building exterior.



SITE SECTION DIAGRAM

Design Guidelines and Assumptions

1. 5 level design scheme plus a penthouse
2. The FFE of Level 1 is at an elevation of 781.3'
3. The floor to floor height is 20' for Level 1, 16' for Levels 2-5, and 23' for the penthouse
4. Multiple departments have space on Level 1 to allow for exposure to the most students
5. Faculty offices are in clusters at the ends of the northern bar to promote interdisciplinary faculty-student interaction
6. Labs are organized in 8 pack groupings to promote the efficiency of lab support spaces. Circulation is in a racetrack configuration around the labs to provide the opportunity for borrowed light into the labs. The south bar has a reduced racetrack configuration to eliminate redundant, less traveled circulation space.
7. The loading dock and utility connection point is on the West side of the building. The exception to this is the sanitary sewer line and chilled water line that will enter from the north and east respectively.
8. The large lecture hall is to be flat vs. tiered.
9. Informal collaboration spaces are distributed throughout the plan at different scales.
10. The Mayo Partnership space is distributed throughout the building as requested.
11. Primary vertical circulation is near the main entrance and weaves throughout the public collaboration spaces.

5.4 SITE PLAN CONCEPT

Hardscape Design

The project site is located directly south of the Garfield Pedestrian Corridor and becomes a gateway moment from Upper Campus. This upper to lower campus gateway opportunity receives students traveling down the hill from the northeast corner, creating a space to set the tone for lower campus connections. Welcoming entries have been located at the northeast and northwest corners of the building with additional lighting, seating, and bicycle parking help to activate these spaces. Entries from the east receive students from the McIntyre Library tunnel as well as the Davies Student Center. A set of stairs and switch back ramps traverse the grade to the entrance aligned with McIntyre library, with accessibility and parallel paths of travel being design drivers. These hardscape spaces are hierarchical in design and will take cues from contextual hardscape, such as the Garfield Pedestrian Corridor, by creating a breakdown of space with a variety of textures, colors, and materials. All walkways are being designed for a minimum 8' width with 5' radiused corners to aid in the pedestrian flow and snow removal on site.

In the UWEC Campus Master Plan, connections to Little Niagara Creek are highlighted with attention to designing a sustainable approach to maintenance. This has been achieved with an accessible path branching off the bridge at the southeastern corner of the site to allow an accessible connection to Little Niagara Creek. The south and southwest sides of the building have been left as unprogrammed open space for students, faculty, and staff to continue to use the lawn space for passive

recreation. Most of the southern open space will be sloped lawn to make up the grades from Little Niagara to the 15-foot offset from the building. Retaining walls on the south and east sides of the site are also part of the hardscape design to allow paths of accessibility and retainage of the 15-foot flat zone adjacent to the building where the grade is steeper than a 4:1 grading solution.

Landscape Design

The proposed plantings for the new Sciences Building are focused at the entries and along the northern and eastern sides of the building to enhance the pedestrian experience. Waves of native and urban tolerant plantings will weave through the spaces, visually connecting pedestrian zones, while proposed native trees will punctuate the pedestrian spaces to the north and east of the site. Foundation plantings along the exterior walls of the

SITE PLAN KEY:

1. Putman Drive
2. Garfield Pedestrian Corridor
3. Proposed Entrance Typical
4. Proposed Bike Racks Typical
5. Proposed Parking
6. (2) Compactors
7. Proposed Layover Lane
8. Gas Meter Pad
9. Proposed Stair and Ramp
10. Proposed Walkway Typical
11. Biofiltration Area
12. (2) 2 yard dumpsters
13. Nitrogen Gas
14. Generator
15. Proposed Loading Dock
16. Proposed Planting Bed Typical
17. Retaining Wall Typical
18. Existing Tree Typical
19. Proposed Tree Typical
20. Little Niagara Creek
21. Footbridge to College of Nursing and Davies
22. W.D. McIntyre Library

SITE PLAN

east, west and south edges will soften the structure's façade and add to the overall site aesthetic. Plantings will consist of a mix of evergreen and deciduous shrubs, ornamental grasses, and flowering perennials to provide multi-season interest. Campus has provided a preferred planting palette that will serve as a guideline for perennial, shrub, and tree selection. Plant selection will also incorporate species sympathetic to the Garfield Pedestrian Corridor to form a visually cohesive plant palette from one project site to the next. Urban tolerant plants will be selected for their ability to withstand periods of heat, drought, salt spray, and cold hardiness. Low-maintenance plantings will be utilized as much as possible to minimize water demand, perennial deadheading, pruning, and other maintenance activities beyond the establishment period.

A naturalistic edge at the southern boundary of Little Niagara Creek will aid in habitat restoration and work towards a reduction in maintenance along the creek slopes. The vast majority of the proposed landscape at the south façade will be mown, sloped lawn.

Irrigation is common throughout lower campus and will be designed for the more intensive planting beds and lawn spaces for this project. The irrigation system intends to be an expansion of the existing Lower Campus irrigation system that draws water from the Chippewa River.

Stormwater filtration basins will be populated with plugs and native seed mixes to provide qualitative restoration of stormwater before it is piped into the watershed. Native perennial plugs will be selected to withstand temporary periods of inundation immediately after storm events, as well as drought, and will be designed in accordance with the Wisconsin Department of Natural Resources. Native seed mixes will be sown on the side slopes of the basin with erosion control matting to support in seed establishment and reduce sediment and seed runoff.

Vegetative screening and fencing at the loading area will benefit in the overall aesthetic of a highly functional and utilitarian space. Plantings with evergreen qualities will be selected for their year-round level of screening and will be supplemented with deciduous varietals to soften the space.

5.5 BUILDING MASSING AND FUNCTIONAL LAYOUT DIAGRAMS

Many factors contribute to the development of the following concept design for the Pre-Design Study. The resultant concept design considers the space allocations and their adjacencies, the site constraints, the desire for access to daylight and views, and the client's desire to prioritize collaboration and informal interaction. The site constraints and sustainability strategies influence the building shape, height, and orientation. The compact floor plan is carved away to gain as much natural light into lab and teaching spaces as possible. The campus context and pathways establish building entry points and prioritize views towards the river for as many faculty, students, and visitors as possible. The cost of the following concept will add the final layer of information from which to move forward with the design process.

The following functional layout diagrams and massing views illustrate a five-story building with a mechanical penthouse. It includes Biology, Chemistry, Computer Science, Geography and Anthropology, Geology, Material Sciences and Engineering, Mayo Partnership, Nursing, Physics and Astronomy, Psychology, Public Health, and Environmental Studies. Beyond lab and classroom spaces, there is also space for a cadaver lab, vivarium, planetarium, bird museum, large lecture hall, observatory, greenhouse, and flexible, collaborative laboratory spaces.. The building is organized into a series of neighborhoods that allow for inter-departmental and cross-departmental interaction throughout the building. On the ground floor, an effort is made to give each department real estate for introductory courses, thus exposing non-science majors to a variety of science disciplines.

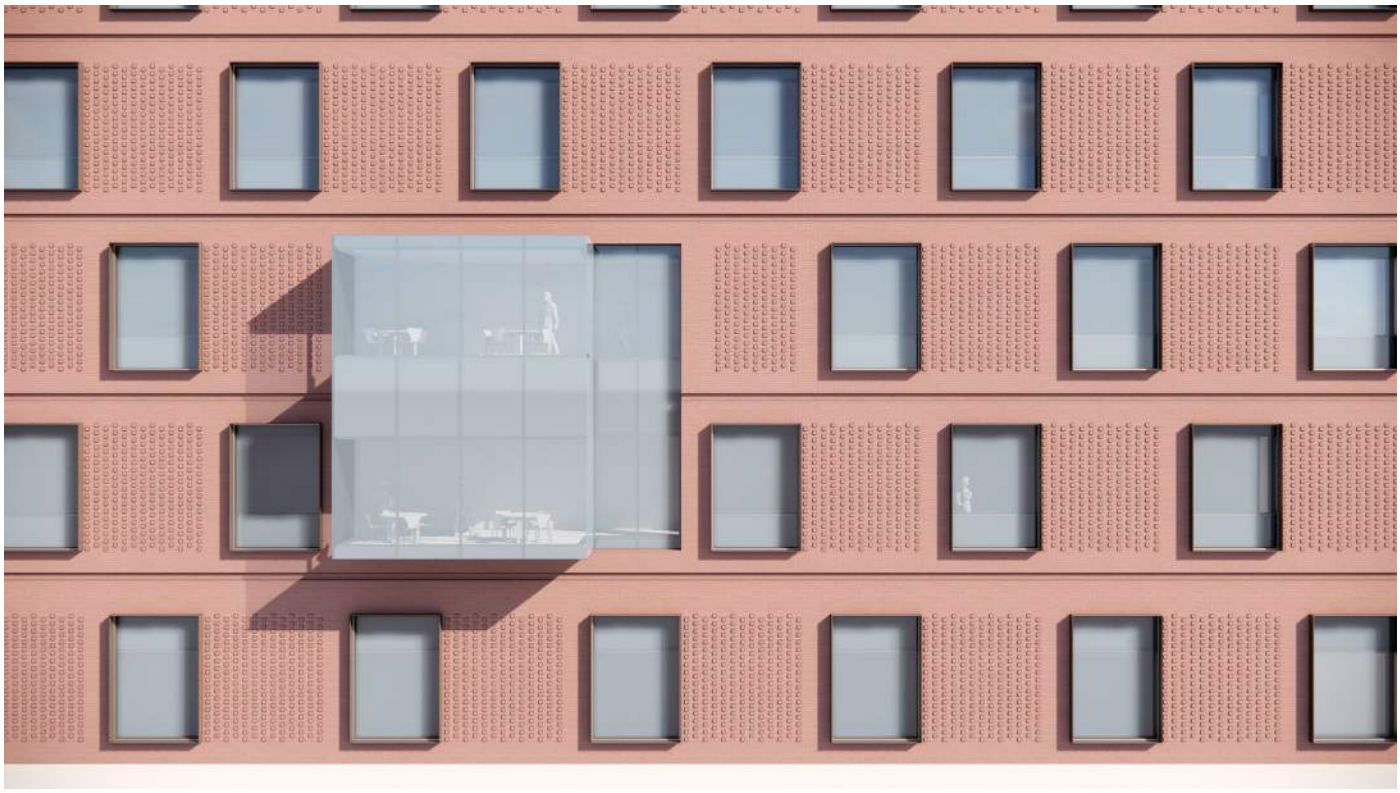
The exterior design and massing relate to the building's context with a pattern of punched windows in a brick facade. The notion of the plan being carved away is carried through in the massing of the building where cuts or projections are expressed as glass moments in the brick texture. Student collaboration spaces are celebrated moments on the building's exterior as glass volumes.

NORTH ELEVATION

EAST ELEVATION

SOUTH ELEVATION

WEST ELEVATION



ENLARGED FACADE DETAIL

AERIAL VIEW 1

AERIAL VIEW 2

VIEW FROM THE BRIDGE

VIEW FROM THE GARFIELD PEDESTRIAN CORRIDOR

LEVEL 1 SPACE PLAN

OCCUPANT CATEGORY

- BUILDING SUPPORT
- CIRCULATION
- EDUCATION
- PUBLIC
- RESEARCH

LEVEL 2 SPACE PLAN

OCCUPANT CATEGORY

- ADMINISTRATION
- BUILDING SUPPORT
- CIRCULATION
- EDUCATION
- PUBLIC
- RESEARCH

LEVEL 3 SPACE PLAN

OCCUPANT CATEGORY

- ADMINISTRATION
- BUILDING SUPPORT
- CIRCULATION
- EDUCATION
- PUBLIC
- RESEARCH

LEVEL 4 SPACE PLAN

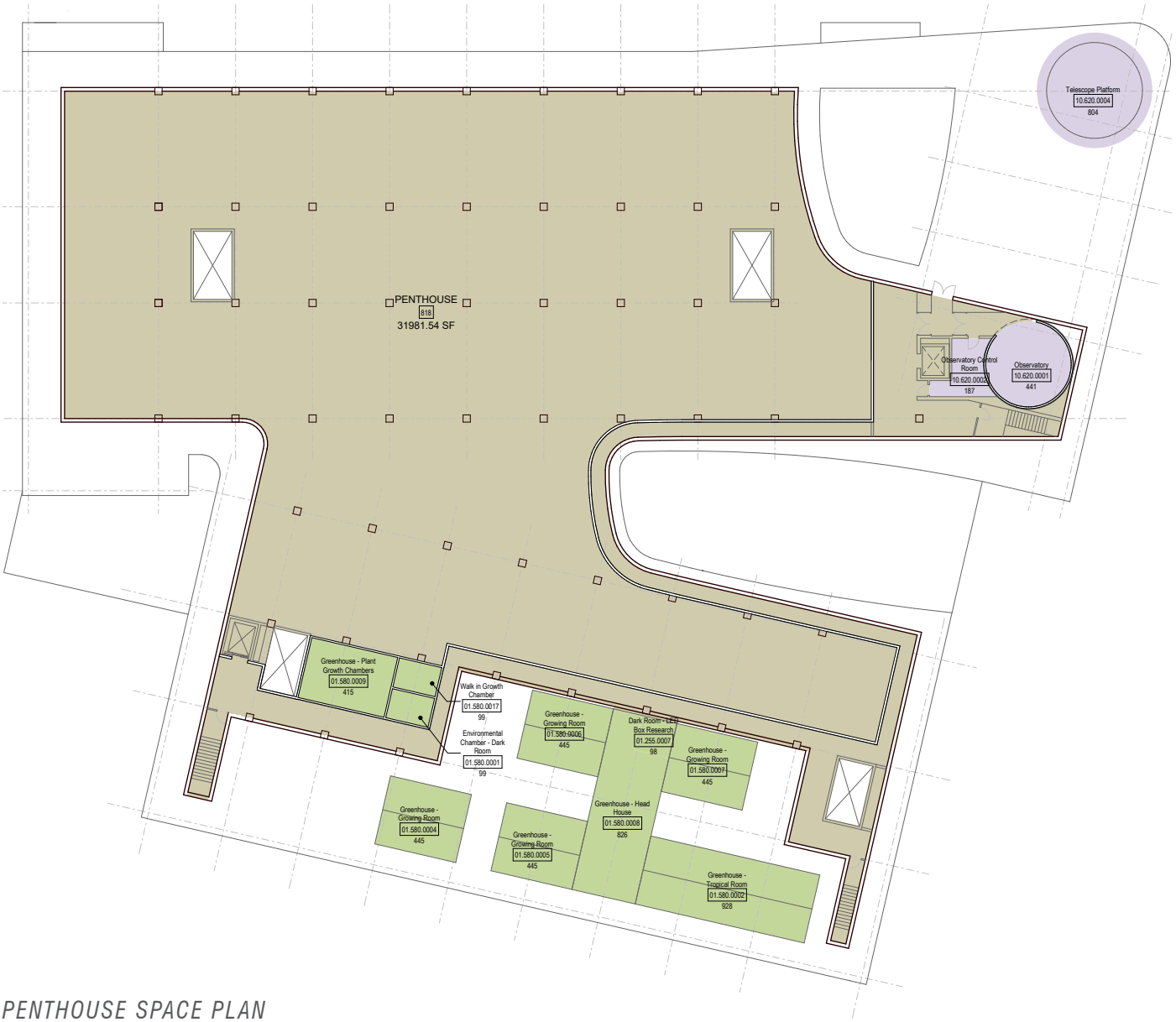
OCCUPANT CATEGORY

- ADMINISTRATION
- BUILDING SUPPORT
- CIRCULATION
- EDUCATION
- PUBLIC
- RESEARCH

LEVEL 5 SPACE PLAN

OCCUPANT CATEGORY

- ADMINISTRATION
- BUILDING SUPPORT
- CIRCULATION
- EDUCATION
- PUBLIC
- RESEARCH
- VIVARIUM



PENTHOUSE SPACE PLAN

OCCUPANT CATEGORY

- BUILDING SUPPORT
- EDUCATION
- RESEARCH

6.1 ARCHITECTURAL SYSTEMS

NEW BUILDING DESCRIPTION

New higher education science building for UW-Eau Claire campus to provide the entire building space program as established by the UWEC during the program verification process conducted over late winter and early spring of 2021.

This narrative and the Preliminary Building Concept anticipate the entirety of the Project Scope is designed and constructed as a single building without phasing building construction, under a standard design/bid/construct process in compliance with the DFD requirements for State owned buildings.

This narrative is intended to assist the cost estimating process to obtain updated anticipated building cost based on the in-process design being prepared for the Pre-Design Services Deliverable.

CONCEPT DESIGN ARCHITECTURAL SYSTEM DESCRIPTION

General Conditions

Include general conditions required to complete the project. Contractor shall also include builders risk insurance, testing and inspection fees, and all permit fees.

Existing Conditions

Provide complete secure fenced enclosure of construction area, erosion control measures to protect Little Niagara creek, allow access through the construction site by UWEC facilities vehicles on Putnam Road as needed to support ongoing campus operations.

Remove two existing residence hall buildings: DFD separate contract for hazardous materials removal and disposal. Remove and dispose of buildings including complete removal of foundations, allow UWEC to salvage any items, recycle and dispose debris materials following construction waste management standards.

Remove underground utilities and abandoned structures to extent indicated on utilities removal plan.

Protect trees and wetland areas along Little Niagara.

Clear and grub site, stockpile top soils, remove unsuitable fill soils, provide engineered fill material to build site grades up to design elevations.

Construct utilities laterals as shown on concept utilities laterals plans.

Concrete Frame

Refer to concept structural framing diagrams.

Exterior Wall Assemblies

Masonry rainscreen cavity walls: CMU substrate walls of 8" or 10" thickness, depending on vertical span, reinforced, fully grouted, with masonry or steel lintels to suit openings; spray applied air barrier, minimum 3" mineral wool thermal insulation, air space, and veneer clay masonry units (assumed cost basis is modular brick, running bond, colored grout, with masonry accessories and detailed installation per DFD Master Specifications and Design Guidelines. Brick to be selected by AE.

Curtainwall system glazed walls and openings: Aluminum curtainwall systems selected to suit design and performance criteria, per DFD Master Specifications and Design Guidelines. Systems and glazing materials to be selected by AE.

Division 5 - Metals

Structural Steel - secondary framing where dictated by design

Steel stud framing for exterior wall, delegated design - Mechanical Penthouse only

Shelf angles and loose lintels for exterior brick veneer support

Metal Fabrications:

- Metal stairs for concrete fill of treads and landings
- Metal railings - steel pipe and bar stock railings in stairs
- Miscellaneous metal supports

Division 6 - Wood

Rough Carpentry - blocking

Finish Carpentry

Architectural woodwork and millwork

Division 7 - Thermal and Moisture Protection

Damp proofing - building foundation frost walls

Water proofing - where required per soils report

Thermal insulation - rigid board below grade, mineral wool in exterior wall assemblies, fiberglass batt in partition assemblies

Spray applied fire proofing system on structural steel frame to rating required (where steel is used)

Weather barriers - spray applied with flexible membrane flashing and trims at openings

Membrane Roofing:

- General roof areas - Elastomeric Membrane Roofing – 60 mil, DFD specs. Fully adhered system over tapered roof insulation sloped to drains.
- Greenhouse areas – IRMA roof assembly, American Hydrotech or similar hot applied system

Flashing and Sheet Metal:

- Sheet metal flashing and trim – prefinished, shape and gage to suit conditions
- Flexible flashing

Roof and Wall Specialties and Accessories:

- Manufactured Copings
- Roof accessories - walk pads for paths and around equipment
- Roof pavers - architectural concrete pavers on pedestal system for roof plazas

Fire and Smoke Protection:

- Fire Stopping
- Smoke Containment Barriers

Joint Protection:

- Expansion joint cover assemblies

Division 8 - Openings

Doors and Frames:

- Exterior doors: Insulated HM Doors and thermally broken HM Frames
- Interior doors: Back of house – HM doors in HM frames
- Interior doors in public areas: Flush slab architectural wood door in narrow face AL or WD frame, 9'-0" tall doors, veneer species and finish to be selected.
- Insulated Coiling Overhead Door with electric operation at loading dock area.
- Overhead doors at Vivarium holding rooms

Aluminum Entrances, Storefronts, and Curtainwalls:

- Building Entrance doors: narrow rail and stile aluminum doors with 1" IGU infill
- Curtainwall: Kawneer 1600 wall or equal, 4 sided SSG with 1" IGU glazed infill, 2-coat PPG Duranar Sunstorm, mica pearlescent flake, color to be selected.
- Punched openings: Kawneer 1600 wall or equal, 4 sided SSG with 1" IGU glazed infill, 2-coat PPG Duranar Sunstorm, mica pearlescent flake, color to be selected.
- Special mullion caps/coverings and interior trims to match design

Hardware:

- Architectural grade builders hardware – to suite opening functional requirements
    - Mortise Locksets
    - Access control hardware for controlled access system, tied into UWEC system, using accepted UWEC standard products.

Exterior Glazing:

- IGU 1: I" IGU vision glass with low E coating, glass and coating to be selected, safety glass unit where required by code. 50% 1/8" dot frit.
- IGU 2: I 1/4" (for large DLOs) - IGU vision glass (minimum nominal 5/16" glass exterior and interior pane) with low E coating, glass and coating to be selected, safety glass unit where required by code. 50% 1/8" dot frit.
- Cantilevered tempered glass guard rail - laminated clear glass infill in engineered guard rail system

Interior Glazing:

- Door and borrowed light glazing - monolithic clear glass, safety where required by code.
- Mirror glass for restroom, mothers room, and wellness room mirrors (frameless)

Interior Borrowed Lights:

- Painted hollow metal frames installed into partitions

Interior All Glass Partitions and Entrances:

- All glass entrances installed as monolithic safety glass full height glass interior partition, extends to height of suspended ceilings, delegated design for glass support and thickness.
- Conceal head channel into partition construction above the glass, small profile sill channel fastened to slab.
- Offices and conference rooms will have all glass partitions on at least one wall.

Division 9 - Finishes

Interior Partition Construction:

- Demising and full height partitions: metal stud framed with 5/8" GWB sheathing both sides extend to structure above, sound batts in stud cavity, perimeter acoustical and or fire rated sealant.
- Interior non-full height partitions: metal stud framed with 5/8" GWB sheathing both sides extend to above finished ceiling height, or as shown in drawings

Interior Finishes (general assumptions):

- Lab Spaces - seamless vinyl flooring, vinyl or rubber wall base, epoxy wall paint, acoustical panel ceiling tiles in 15/16" aluminum capped grid system
- Office Spaces - carpet, vinyl or rubber wall base, wall paint, acoustical panel ceiling tiles in 15/16" aluminum capped grid system
- Public Corridor and Circulation - seamless vinyl flooring, vinyl or rubber wall base, wall paint, acoustical panel ceiling tiles in 15/16" aluminum capped grid system
- Exit Stair Enclosures - painted GWB furred shear walls, rubber treads and risers on stair runs and landings, metal surfaces painted, painted structure at top level, no ceilings
- Restrooms - thin-set tile floors, wall base, all wall surfaces, painted GWB ceiling w access panels where required for service access.
- High Abuse and BOH Rooms - sealed polished concrete, vinyl or rubber wall base, wall paint, exposed painted structure
- Penthouse - sealed concrete floor slab, curbed epoxy-coated floor in zones where water containment is recommended (bathtub), wall paint, exposed painted structure
- Computer Labs - shallow depressed concrete slab (cable raceway), pedestal floor system with carpet tile finish, vinyl or rubber wall base, wall paint, acoustical panel ceiling tiles in 15/16" aluminum capped grid system
- Higher Design Spaces - finishes per design
    - Lobbies, Entrances, Lecture Hall, Maker Spaces, Sticky Spaces, Planetarium, some areas/sections of corridors, connecting stairs

Division 10 - Specialties

Building Specialties:

- Dedicated plaque
- Painted meal ceiling mounted toilet compartments
- Toilet and shower accessories (hands free)
- Wire mesh partitions (loading area caging)
- Corner guards
- AED
- Area of Rescue communication system
- Interior code required signage, address signage on facade, lobby directory
- Facility signage
- Operable partitions (lecture hall)

Division 11 - Equipment

Building Specialties:

- Loading dock equipment
- Food service equipment (catering prep at lecture hall)
- AV system and equipment

- Monitors, projectors, screens, white boards

Laboratory Equipment:

- Fume hoods, DFD spec
- Sterilizers
- Glass washers
- Packaged environmental rooms
- Refrigerators and freezers
- Laboratory accessories
- Biological safety cabinets (Class 1, 2, 3) DFD spec
- Overhead point vacuums

Break room appliances and similar loose furnishings to be included in FFE budget carried in Movable Equipment Budget line.

Division 12 - Furnishings

Building/Site Furnishings:

- Bicycle racks
- Building standard window shades for exterior glazing within office areas - manually operated solar roller shades with 1% perforated openings, two color shade cloth

Laboratory Furnishings:

- Fixed and mobile painted metal casework
- Fixed and mobile wood casework
- Casework tops

Loose furnishings to be included in FFE budget carried in Movable Equipment Budget line

Division 13 - Special Construction

Planetarium turn-key design-build:

- Prequalified design-build contractor to construct the fit-out of the planetarium space per the scope design documents, hold separate line-item allowance for this scope

Greenhouse turn-key design-build:

- Prequalified design-build contractor to construct the fit-out of the planetarium space per the scope design documents, hold separate line-item allowance for this scope

Observatory turn-key design-build:

- Prequalified design-build contractor to construct the fit-out of the observatory space per the scope design documents, hold separate line-item allowance for this scope

Division 14 - Conveying Equipment

Elevators:

- Electric Traction Elevators with controllers remotely located in penthouse or other acceptable location
- Elevator 1,2 - Passenger Elevators (serves floors 1-5, approx.. 68' vertical travel)
    - Kone Monospace 500 or equal, 4000 lb capacity, machine-room-less, gearless traction elevator
    - Speed: 350 FPM, 5 stops, front opening car, single speed center opening hoistway entrance with 9' high brushed stainless steel doors at all stops, 9' high cab interior, with stainless steel interior package selected from manufacturer standard offerings, 1 car operating panel with swing door, thin floor finish to be selected, protection hooks and pads, car operates in shared hoistway configuration, call buttons, hall lanterns, all stops have controlled access system integrated to building security system, one car serves as self-evacuation and Fire Service operation
- Elevator 3,4 - Passenger/Service Elevator (serves floors 1-P, approx. 84' vertical travel)
    - Kone Monospace 500 or equal, 5000 lb capacity, machine-room-less, gearless traction elevator
    - Speed: 350 FPM, 6 stops, front and rear opening car, two speed hoistway entrances with 9' high brushed stainless steel doors at all stops, 9' high cab interior, with stainless steel interior package selected from manufacturer standard offerings, 2 car operating panel with swing door, thin floor finish to be selected, protection hooks and pads, cars located in separate hoistways, independent operation, call buttons, hall lanterns, all stops have controlled access system integrated to building security system, one car serves as self-evacuation and Fire Service operation.

6.2 LABORATORY SYSTEMS

Casework:

Casework will be selected to optimize flexibility, user needs and aesthetics. A combination of fixed and mobile casework will be used for the new facility. Details will be developed as the design develops further. Adaptable, mobile, pre-piped pre-plumbed benches will form the backbone of the modular casework used in the open, research laboratories. Fluids will be accessed via needle valve fixtures plumbed into the vertical uprights while power and data will be in a raceway run horizontally across the frame. There will be the option of having power at the legs under the bench. All cabinets will be lockable (unless locks are not requested by users). Countertop material selection will depend on usage and will be determined later in the project. It is anticipated that epoxy resin tops and stainless steel tops will be used in specific areas based on the requirements. Teaching labs will have fixed casework at the perimeter.

Base Cabinets:

Base cabinets will be provided throughout the lab as required. At research labs, these could be mobile and have drawers but there will be a few drawers, door combination units as well. Additional options will be studied as the design progresses. There will be a few fixed cabinets at sinks and under fume hoods. Base cabinets for teaching labs will be located at student stations and around the perimeter as needed.

Laboratory Tables:

Tables will be determined in the next phase but may be adjustable height. They will be used predominantly in the Support labs and Instrument/Prep labs.

Overhead Storage:

Adjustable shelves, overhead wall cabinets will be provided for overhead storage. Task lights will be mounted under the shelves. Additional options will be studied as the design progresses.

Tall Storage Cabinets:

These will be strategically distributed throughout the lab to maximize storage. Several labs have identified storage needs for anatomical models, physics apparatus, microscopes, etc. that will utilize these cabinets.

Ceiling Service Panels and Service Columns:

Service distribution will be determined in the next phase, however ceiling service panels integrated into the ceiling grid will likely be the point of dispersion of house gases, specialty gases, power and data to laboratory benches in any open research labs and at islands in the support labs. Hookup to fixtures on mobile laboratory benches will be via quick connect fittings and hoses. Hoses and wires will be managed to ensure an uncluttered aesthetic. Twist lock electrical receptacles and data connections will also be integrated at the panels. Emergency and specialty power will also be available at specified locations. Blanks and knockouts will be provided for future additions of services. Ceiling service panels will be incorporated at teaching labs as necessary. However, this is generally not the delivery method for gases, power and data at student benches. Services will typically be delivered to island benches via a vertical service column or through the island service core. This will be developed in the next phase of design.

Lab Exhaust Devices:

Exhaust devices will be provided per programmatic needs. High performance laboratory fume hoods, snorkels, elephant trunks/ exhaust ports or canopy hoods will be provided per scientific need. Biological safety hoods and laminar flow hoods will also be provided. Demonstration hoods may be used in teaching labs. Equipment and their associated services will be detailed in the next stages of this project.

Architectural Finishes and Palette for Labs:

The architectural finishes, interior design, casework and finishes will be reflective of a vibrant, high-end institution, consistent with teaching and research facilities competing for the best and brightest. Through common themes, materials, and form, will be cohesive with the design of the exterior of the building. Low maintenance, and high durability will be key aspects of all interior finishes.

Wall Finishes:

The walls will be impact resistant gypsum board with high performance acoustic properties and blocking to support wall mounted shelving. Low VOC, chemical and abrasion resistant, high performance epoxy paint will be used on all walls. Specialized labs such as Aquatics holding rooms may be CMU. Wall protection such as crash rails and corner guards will be provided in strategic locations.

Floor Finishes:

Flooring in wet labs will be commercial rubber, chemically resistant sheet vinyl or troweled resinous flooring with an integral cove based on location and type. Electrostatic dissipative flooring will be provided as required in dry labs.

Ceilings:

Acoustical ceiling tiles with high NC criteria will be used, especially in the open lab and active learning labs to provide a quiet environment conducive to research. The Autoclave/Glass wash area will have moisture resistant ceiling surfaces, fixtures and finishes.

See Room Data Sheets for detailed casework and equipment needs per room.

6.3 STRUCTURAL SYSTEMS

Foundation System:

A geotechnical report by Chosen Valley Testing, Inc. has been provided for this site. Based on the combined findings, the natural material below the fill and topsoil appears suitable for foundation support but will need to contend with a shallow bedrock condition which will extremely limit settlement in those areas, while also contending with the compressible clay and silt zone which would be the primary source of differential movement once the fill and topsoil are removed.

Use of standard spread footing foundation on moderate to high capacity appears to be plausible depending on actual loads.

Piling or geo-piers/rammed aggregate supported foundation are likely alternatives in the areas with the compressible materials. Because of the compressible zone and the probably loads on the piles, piling would likely have to be driven to bedrock. Because of cobbles in the piles, H-piles seem the more likely choice.

It is suspected that rammed aggregate foundations would terminate only 5 feet or so below the compressible zone and could allow the use of a high-capacity spread foundation.

A vapor retarder is recommended under all slabs that will receive sensitive floor coverings. It will be evaluated if this vapor retarder should be placed directly below the slab or under a sand layer.

The slab on grade will be 4 inches unless thicker slabs are needed for heavier loading. The slabs will be designed using a subgrade modulus of 250 pci. There are a couple rooms in the basement that may require full isolation and heavy slabs to minimize vibrational concerns with special sensitive equipment.

Seismic soil classification for this site is considered to be a Site Class D. The seismic acceleration parameters are SS of 0.0462 and S1 of 0.0301.

Laboratory Vibration/Structural Consideration:

Vibration criteria for areas intended to accommodate sensitive equipment are based on Vibrational Velocity as measured in one-third octave bands of frequency over the range of 8-80 Hz for equipment without internal pneumatic isolation. For this facility, we will be designing the structural system to satisfy the limiting velocity of 2,000 in/sec per CRSI Publication No. 10-DG-VIBRATION Table 3.3 Acceptance Criteria for Sensitive Equipment.

Floor Framing – Laboratory:

The basic bay size module is approximately 21'-4" x 32'. A concrete system for this bay size is most likely to consist of a wide module pan/joist system of approximately 30" in depth. Both beams and joists would be this depth. The concrete beams are assumed to be 36" wide in the center bays and 24" wide along the perimeter. The joist system would likely be 24" deep pans with a 6" slab. In bay between the lab modules, an 6" flat slab will be used to reduce the structural depth for MEP runs. The concrete compressive strength to be specified for all floor framing and columns will be 5 ksi. The concrete system, while being inherently fire-proofed, also provides stiffness/mass for vibration control. As equipment vibrational requirements become more defined, due consideration will be made for the system design.

Floor Framing – Office Space:

The current floor layout provides for a large column free space at the large auditorium on the first floor and continuing up to the roof. The plan also has significant cantilevers of the second thru fifth floors on the north east corner. This cantilever floor system will require heavy wide flange members or custom plate girders to support all the loading. Floors will typically be composite steel framing with beams/girders having steel headed studs attached to top flanges to engage a concrete slab on deck. Typical beams will be 24 inches to 30 inches in depth with spacing at 64 inches on center and girders 30 inches to 40 inches in depth. Slabs will

typically be 7.5 inches in total thickness, including composite steel deck. The deck profile will be 3 inch, 18 gage composite deck, which would have a 4.5 inch concrete cover and still maintain the 2 hour fire rating with un-sprayed deck. Columns supporting framing are primarily wide-flange steel shapes with sizes up to heavy W14s.

Stairs:

The stairs will be a steel pan with concrete topping system. The stringer types may vary between the west and east stair. With the east stair being more open and having a long straight run, the use of tube stringers will be used.

Roof Framing – Laboratory:

Roof framing would be a concrete system similar to floors. Reinforcing may be reduced due to decreased loads and vibration constraints.

Roof Framing – Office Space:

Roof framing over the office bay will remain long span open framing. Typical beams will be 18 inches to 24 inches in depth with the spacing at 64 inches on center and girders 24 inches to 30 inches in depth. The deck profile will be 1 1/2 inch, 18 gage roof deck. This does not provide a 2 hour fire rating and will need to be sprayed.

Roof Framing – Penthouse:

The penthouse roof framing is proposed to be of steel-framed construction using wide flanged beams and steel roof deck. Fire-proofing will also be required on these system elements to achieve a rating if required. Wide flanged beams provide much greater flexibility than open web joists for supported equipment and piping, as well as reducing steel surface area required to be fireproofed. Framing over the penthouse area will be sized to reflect increased mechanical loading requirements characteristic of this use.

Mechanical Screened Area:

The mechanical screened area will have galvanized steel tube columns and beams. The beams will be placed at two locations; the top tube will be placed at the top of the screen wall and the bottom tube will be placed a few feet above the roof deck. The columns will be braced with tube steel kickers back down to the roof structure. These kickers will be within the screened area.

Exterior Walls:

The exterior walls will be a non-load bearing 8” or 10” CMU with lightly reinforced vertical cells with a brick or cast-stone finish with punched window openings. At the exterior corridors the exterior walls will be glazed curtain wall. The CMU walls will bi-pass the concrete structure requiring special detailing to tie the two systems together.

The mechanical penthouse will have non-load bearing 8” cold-formed metal studs at 16” oc.

Lateral Resistance:

Lateral systems to resist the forces due to wind, seismic, and unbalanced earth pressure will likely consist of reinforced concrete shear walls. Shear walls will most likely be 12” thick to allow for higher capacity is easy constructability. These will be placed in areas such as stair and elevator shafts, mechanical shafts, restroom blocks, or other walls that likely remain unchanged over time. Resistance will be required in both north-south and east-west directions. The steel framed penthouse will have braced frames to resist lateral forces.

General Structural Design Parameters:

- International Building Code (IBC), (2018)
- Wind and Seismic: per requirements of ASCE 7-14 (American Society of Civil Engineers).
- Snow loading: per requirements of ASCE 7-14. Both basic and drifted snow requirements. Eau Claire area ground snow load – 50 psf
- The roof will be designed for an additional 15 psf for future PV.

Floor Loading:

- First floor public areas and corridors - 100 psf Live
- Office areas - upper levels - 80 psf Live
- Corridors - upper levels - 80 psf Live
- Lab areas - all levels - 125 psf Live, as determined by equipment needs and future flexibility requirements.
- Mechanical Penthouse - 125 psf Live, plus any higher loading as required for specific equipment

6.4 FIRE PROTECTION SYSTEMS

EXECUTIVE SUMMARY

The fire protection systems for the new University of Wisconsin-Eau Claire Science/Health Science Building will primarily be wet pipe automatic sprinkler systems. Dry pipe systems will be utilized as required in areas that are exposed to temperatures less than 40°F. There are no specialty systems anticipated for this project.

SYSTEM DESCRIPTIONS

FIRE SERVICE

System Description

An underground fire line will supply the sprinkler systems in the building.

Design Criteria

The design of the underground fire lines shall comply with NFPA 24.

Current water supply flow test data will be obtained from the City Water Department in order to determine the capacity of the water mains.

Equipment and Material

Piping for all underground lines will be cement lined ductile iron or, where approved by the Owner and local Authority Having Jurisdiction, Polyvinyl Chloride (PVC).

FIRE PUMP

System Description

The building standpipe and sprinkler system will be served by a UL Listed centrifugal fire pump when water supply pressures are not adequate to meet minimum fire protection demands. When required by the local Authority Having Jurisdiction (AHJ), or recommended by the Owner or Owner's insurance carrier, the fire pump will be installed in a dedicated fire pump room with direct exterior access.

Design Criteria

The fire pump will be sized in accordance with NFPA 13, NFPA 14, and NFPA 20. Current water supply flow test data will be obtained from the City Water Department in order to determine the required pressure rating of the fire pump.

Equipment and Material

The fire pump will be a horizontal split case centrifugal fire pump. The jockey pump will be a centrifugal type pump and is intended to be utilized for pressure maintenance in the fire protection piping system.

The fire pump controller will include all features required in NFPA 20 with a soft type starter.

Distribution

The fire pump installation will include a fire pump test header, fire department connection, and fire pump bypass line. Piping and valves will be configured in accordance with NFPA 20.

Fire Pump Test Header (FPTH) – A fire pump test header will be provided for the fire pumps. The test header will consist of 2-1/2" outlets with caps and chains.

- An automatic ball drip valve will be installed between the control valve for the test header and the header itself to allow any water to drain out of the piping.
- The FPTH location will be coordinated with the local Fire Department, Project Architect, and Civil Engineer to ensure that adequate drainage is provided in the area to prevent any water damage from occurring.
- The test header will be installed on the exterior wall of the building.

Fire Department Connection (FDC) - The fire department connection will consist of 2-1/2" inlets with drop clappers, snoots, caps and chains.

- A check valve will prevent flow from the fire protection system to the FDC.
- An automatic ball drip valve will be installed between the check valve and the FDC to allow any minor leakage past the check valve to drain out of the system.
- The FDC location will be coordinated with the local Fire Department and Project Architect.
- Typically, the design will require a fire hydrant within 100 feet of the FDC.

- The FDC will be installed on the exterior wall of the building.

STANDPIPE SYSTEM

System Description

When required, the building will be protected by a hydraulically designed, Class I Standpipe System without hoses or hose cabinets.

Design Criteria

The design of the standpipe system will comply with NFPA 14.

For manual standpipe systems in a fully sprinklered building, the standpipe system will be designed and hydraulically calculated to provide a flow of 250 gpm at 100 psig residual pressure at the highest fire department valve located on the most remote standpipe, when supplied by the local fire department apparatus through the fire department connection (FDC). An additional flow of 250 gpm will be added at the next highest valve on that standpipe. Finally, 250 gpm flows will be added at the 2 next remote standpipes, bringing the total to 1,000 gpm.

Equipment and Material

The standpipe system piping will be black steel. Piping will either be Schedule 10 with welded fittings or roll groove couplings or Schedule 40 with welded fittings or roll groove couplings.

Distribution

Standpipe risers within a standpipe system shall be interconnected.

A 2-1/2" fire department valve will be provided on the stair's intermediate landing between each floor level.

Additional fire department valves will be provided on the roof and at other locations as required by Code or the local authority.

All roof exterior fire department valves will be protected from freezing with shutoff valves located inside the thermal envelope of the building.

WET PIPE SPRINKLER SYSTEM

System Description

The building will be protected throughout with hydraulically calculated sprinkler systems, which except for special protection needs, will be wet pipe systems. All areas of the building will be protected per NFPA 13, including electrical rooms (i.e. switchgear rooms, transformer rooms, generator rooms, electrical closets, and similar rooms), loading docks, stair towers, exterior canopies, and mechanical rooms.

Design Criteria

The sprinkler system for the building will be designed and installed in accordance with NFPA 13.

All systems will be hydraulically calculated with a computer calculation program using the Hazen-Williams method.

If there are no special Client standards or Client insurance carrier recommendations, the following sprinkler design densities shall apply:

Sprinkler Design Densities			
Hazard-Areas Designated as	Density-Minimum Sprinkler Flow	Remote Area	Hose Stream Allowance
Light Hazard	0.10 gpm per sq ft	1500 sq ft	100 gpm
Ordinary Hazard Group 1	0.15 gpm per sq ft	1500 sq ft	250 gpm
Ordinary Hazard Group 2, where stockpiles of combustibles do not exceed 12 ft.	0.20 gpm per sq ft	1500 sq ft	250 gpm
Extra Hazard Group 1, where the quantity and combustibility of contents is very high and the probability of rapidly developing fires with high rates of heat release are expected	0.30 gpm per sq ft	2500 sq ft	500 gpm
Extra Hazard Group 2, with moderate to substantial amounts of flammable or combustible liquids or where shielding of combustibles is extensive	0.40 gpm per sq ft	2500 sq ft	500 gpm

The pipe sizing for the systems will be as required to satisfy the hydraulic demand.

Equipment and Material

Piping 2" and smaller in size will be Schedule 40 black steel with threaded joints.

Piping larger than 2" will be Schedule 10 black steel with welded fittings or roll groove couplings or Schedule 40 black steel with welded fittings, threaded joints, or roll groove couplings.

All sprinklers in Light Hazard areas will be quick-response type.

The type of sprinkler installed in a particular area will be selected by the Engineer and the Project Architect. Generally, concealed sprinklers will be installed in areas of high visibility and quality of finishes. Recessed sprinklers will be installed in other areas having suspended ceilings. Pendent or upright sprinklers will be installed in areas without ceilings. Sidewall sprinklers will be provided only when other types cannot be utilized.

Areas subject to temperatures below 40°F will be protected by dry sprinklers when possible. If dry sprinklers cannot be provided, then a dry pipe sprinkler system will be installed. Glycol antifreeze system will not be an option to dry sprinklers or dry pipe system.

Distribution

The sprinkler system will be provided throughout the building in accordance with NFPA 13 and, when required by the Owner, with insurance carrier recommendations.

DRY PIPE SPRINKLER SYSTEM

System Description

Areas of the building subject to temperatures below 40°F will be protected by a dry pipe sprinkler system.

Design Criteria

The dry pipe sprinkler system will be designed and installed in accordance with NFPA 13.

All systems will be hydraulically calculated with a computer calculation program using the Hazen-Williams method.

If there are no special client standards or client insurance carrier recommendations, the following sprinkler design densities shall apply:

Sprinkler Design Densities			
Hazard-Areas Designated as	Density-Minimum Sprinkler Flow	Remote Area	Hose Stream Allowance
Light Hazard	0.10 gpm per sq ft	1950 sq ft	100 gpm
Ordinary Hazard Group 1	0.15 gpm per sq ft	1950 sq ft	250 gpm
Ordinary Hazard Group 2, where stockpiles of combustibles do not exceed 12 ft.	0.20 gpm per sq ft	1950 sq ft	250 gpm

The system demand will be based upon the most remote 1950 sq ft for ceilings that are pitched less than or equal to a 2 in 12 slope. Ceilings exceeding this pitch will require that the 1950 sq ft remote area size is increased by 30%.

The pipe sizing for the systems will be as required to satisfy the hydraulic demand.

Equipment and Material

Piping 2" and smaller will be Schedule 40 galvanized steel with threaded joints.

Piping larger than 2" will be Schedule 10 galvanized steel with welded fittings or roll groove couplings or Schedule 40 galvanized with welded fittings, threaded joints, or cut groove couplings.

All sprinklers in Light Hazard areas will be quick-response type.

Depending upon the actual installation method, sprinklers on dry pipe systems will be either: upright type; dry pendent type; or pendent and sidewall type sprinklers installed on return bends, where the sprinklers, return bend, and branch line piping are in an area maintained at or above 40°F.

A UL Listed dry pipe valve with trim will be provided.

Distribution

The sprinkler system will be provided throughout the building in accordance with NFPA 13 and, when required by the Owner, with insurance carrier recommendations.

FIRE PROTECTION EQUIPMENT RELIABILITY, GENERATOR POWER, AND CAPACITY MATRIX

System	Component	Component Redundancy	Preliminary Capacity	Generator Power
Dry/Preaction System	Air Compressor	N	-	100%
Dry/Preaction System	Nitrogen Generator	N	-	100%
FP Distribution	Fire Pump	N	100%	100%
FP Distribution	Jockey Pump	N	100%	100%

A. Generator power requirements to be evaluated as design progresses.

B. Redundancy 2N refers to system requiring N operating components with N operating components idle to provide 100% component redundancy.

C. Redundancy N+1 refers to system requiring N operating components to provide 100% of load with one additional component provided.

6.5 PIPING SYSTEMS

SYSTEM DESCRIPTIONS

STORM AND CLEARWATER DRAINAGE

System Description

A storm drainage system will be provided to convey rainwater from flat roofs to site storm sewers and a holding tank for rain water reuse.

Secondary roof drainage will be accomplished by using parapet scuppers and a dedicated piped overflow drainage system separate from the primary storm drainage system which will discharge through the building wall onto grade. Clearwater waste from air handling units, coolers, and other devices and equipment that discharge clearwater will be conveyed by gravity flow through a separate piping system and will connect to the building storm drain.

Design Criteria

The primary storm drainage system will be sized based on a maximum rainfall rate of 3.5 in/hr. The secondary storm drainage system will be sized based on the same design criteria as the primary system.

The sizing for all clearwater discharge from equipment system will be based on the maximum flow rate of the equipment.

Equipment and Components

Storm and clearwater drainage systems which cannot discharge to the storm sewer by gravity flow will be drained by gravity to a sump with pump(s) and will be pumped into the building storm drainage system.

Sump pumps will be connected to the emergency (standby) power system to permit operation during a loss of normal power.

Refer to Piping System Equipment Reliability, Generator Power, and Capacity Matrix at the end of this section for pump redundancy.

Distribution

Storm and Clearwater Waste Systems Materials		
System	Below Ground	Above Ground
Storm and Clearwater Waste and Vent	Service-weight hub-and-spigot cast iron pipe with neoprene push-on compression gaskets Schedule 40 PVC with DWV pattern solvent cement socket fitting joints	Hubless cast-iron pipe with heavyweight no-hub couplings with stainless steel clamps Type L copper tube with soldered joints and wrought copper drainage pattern fittings Schedule 40 PVC with DWV pattern solvent cement socket fitting joints
Pressurized Storm and Clearwater Waste and Vent	Schedule 40 PVC with solvent cement socket fitting joints Copper water tube, Type K, soldered joints and fittings	Schedule 40 PVC with solvent cement socket fitting joints Copper water tube, Type L, soldered joints and fittings

Roof and overflow drain bodies and above ground storm, secondary roof drainage and clearwater waste piping will be insulated.

ONSITE WATER REUSE

System Description

Rain water, Subsoil drainage discharge, and Clearwater discharge from air handling units will be collected in an exterior cistern for non-potable water reuse in the building as supply for irrigation, mechanical makeup and flushing of water closets and urinals. The initial discharge will be routed through a catch basin or vortex filter to clear particulates. The holding tank will overflow to the storm sewer in a rain event which discharges a larger volume of water than the holding tank.

The reuse water line will be provided with a non-potable water make-up line to handle periods when (rain) water is not available to fill the holding tank.

A filtration and bacterial control system will be provided downstream of the tank(s).

A day tank will be provided downstream of the filtration and bacterial control system to hold treated water for (24) hours.

Design Criteria

The rain water reuse tanks will be sized to hold a volume of water equal to 4 weeks estimated building demand.

Equipment and Components

Rain water will be collected in a 25,000 gallon (fiberglass) cistern located exterior to the building.

A 300 micron floating filter will be located upstream of a water pressure booster pump system A water pressure booster pump system will be provided to pressurize the reuse water for distribution. Refer to Appendix-System Equipment Reliability, Generator Power, and Capacity Matrix for pump redundancy.

The water will be filtered with a 50 micron and 20 micron filter located downstream of the booster pump.

Bacterial control will be:

- Chlorine via side stream chlorination package that will draw water from the suction side of the booster pump and return water to the tank(s).

Refer to Piping System Equipment Reliability, Generator Power, and Capacity Matrix at the end of this section for equipment redundancy.

Distribution

Onsite Water Reuse System Materials		
Size	Below Ground	Above Ground
2-1/2" and Smaller	Copper water tube, Type K, soldered joints, and where permitted brazed joints and wrought copper fittings	SDR 11 CPVC pipe with solvent joints and socket pattern fittings. PEX- a, Engel-Method Crosslinked Polyethylene, ASTM F876/877
Pressurized Storm and Clearwater Waste and Vent	PVC pressure pipe, DR 18, with integral bell and elastomeric gaskets and soldered joints with PVC schedule 80 socket pattern fittings	Schedule 80 CPVC pipe with solvent joints and socket pattern fittings Polypropylene (PP-R) SDR 11 ASTM F2389 with heat fused joints and PP-R fittings

The piping will be sized to limit the velocity in any section of the system to a maximum of 8 fps.

SUBSOIL DRAINAGE

System Description

If a subsoil drainage system is required by the Geotechnical Report, it will convey groundwater from exterior footing, interior footing, or underslab to a sump. The effluent will be pumped into the building storm drainage system.

Design Criteria

Design criteria for the subsoil drainage system will be defined by the Geotechnical Report.

Equipment and Components

Subsoil drainage systems which cannot discharge to the storm sewer by gravity flow will be drained by gravity to sump pump(s) and will be pumped into the building storm drainage system. Each sump pump will be sized for 100% of the estimated design flow.

Sump pumps will be connected to the emergency (standby) power system to permit operation during a loss of normal power.

Refer to Piping System Equipment Reliability, Generator Power, and Capacity Matrix at the end of this section for pump redundancy.

Distribution

Subsoil System Materials		
System	Below Ground	Above Ground
Gravity Sanitary Waste and Vent	Heavy duty corrugated polyethylene perforated piping with mechanical couplings	Schedule 40 PVC with solvent cement socket fitting joints Copper water tube, Type L, soldered joints and fittings

Piping will be sized in accordance with the Geotechnical Report recommendations and code requirements.

WASTE AND VENT SYSTEMS

System Description

A sanitary waste and vent system will be provided for all plumbing fixtures and other devices that produce sanitary waste. Plumbing fixtures will be drained by gravity through conventional soil, waste and vent stacks, building drains and building sewers to the site sewer.

All vivarium waste will be considered sanitary waste. All fixtures located within the vivarium will be connected to the sanitary waste and vent system.

Plumbing fixtures in laboratories and laboratory support spaces will be provided with a drainage system separate from the sanitary drainage system. The laboratory waste system will drain by gravity flow to a sampling manhole. The effluent from the sampling manhole will discharge into the site sanitary sewer.

All fixtures will have traps and will be vented through the roof. Vent terminals will be located away from air intakes, exhausts, doors, openable windows and parapet walls at distances required by the plumbing code.

Sanitary waste drainage systems which cannot discharge to the sanitary sewer by gravity flow will be drained by gravity to a sump with pump(s) and will be pumped into the building sanitary drainage system. Refer to Appendix-System Equipment Reliability, Generator Power, and Capacity Matrix for pump redundancy.

Design Criteria

The waste and vent piping will be sized in accordance with code requirements.

Equipment and Components

Floor drains, floor sinks and indirect waste receptors will be provided with trap seal inserts when subject to loss of their trap seals due to evaporation caused by infrequent use.

Sewage ejectors will be connected to the emergency (standby) power system to permit operation during a loss of normal power.

All sanitary waste piping which collects clearwater condensate from air handing equipment will be insulated to prevent condensation on the piping.

Refer to Piping System Equipment Reliability, Generator Power, and Capacity Matrix at the end of this section for pump redundancy.

Distribution

Waste System Materials		
System	Below Ground	Above Ground
Gravity Sanitary Waste and Vent	• Service-weight hub-and-spigot cast iron pipe with neoprene push-on compression gaskets • Schedule 40 PVC with DWV pattern solvent cement socket fitting joints	• Hubless cast-iron pipe with heavyweight no-hub couplings with stainless steel clamps • Type L copper tube with soldered joints and wrought copper drainage pattern fittings • Schedule 40 PVC with DWV pattern solvent cement socket fitting joints
Pressurized Sanitary Waste	• Schedule 40 PVC with solvent cement socket fitting joints • Copper water tube, Type K, soldered joints and fittings	• Schedule 40 PVC with solvent cement socket fitting joints • Copper water tube, Type L, soldered joints and fittings
Laboratory Waste and Vent	• Schedule 80 non-flame-retardant polypropylene pipe (PP), ASTM D4101, with socket fusion joints • Schedule 40 chlorinated polyvinyl chloride pipe (CPVC), ASTM D1784, with solvent cement joints	• Schedule 40 flame-retardant polypropylene pipe (PP), ASTM D4101, with socket fusion joints • Schedule 40 chlorinated polyvinyl chloride pipe (CPVC), ASTM D1784, with solvent cement joints
Laboratory Waste – High Temperature	• Schedule 40 polyvinylidene fluoride (PVDF), ASTM D3222 with socket fusion joints • 316L stainless steel pipe, ASTM A112.3.1, with hub and spigot joints • Schedule 40 chlorinated polyvinyl chloride pipe (CPVC), ASTM D1784, with solvent cement joints	• Schedule 40 polyvinylidene fluoride (PVDF), ASTM D3222 with socket fusion joints • 316L stainless steel pipe, ASTM A112.3.1, with hub and spigot joints • Schedule 40 chlorinated polyvinyl chloride pipe (CPVC), ASTM D1784, with solvent cement joints

Waste piping will be pitched according to code to maintain a minimum velocity of 2 fps when flowing half full.

Vents and the venting systems will be designed and installed so that the water seal of a trap will be subject to a maximum pneumatic pressure differential equal to 1" water column. This will be accomplished by sizing and locating the vents in accordance with the venting tables contained in the plumbing code.

ELEVATOR SUMP PUMPS

System Description

An elevator sump shall be required in the base of each elevator pit. Unless noted otherwise sump pit shall be formed into the elevator hoist-way base. Sump pump discharge will be with an air gap to a receptor and into the building storm drainage system. Refer to Appendix-System Equipment Reliability, Generator Power, and Capacity Matrix for pump redundancy.

Design Criteria

Sump pump will be sized in accordance with code requirements. Provide a pump sufficient to discharge 50 gpm per elevator car.

Equipment and Components

Sump pump shall be submersible type. Sump pumps will be connected to the emergency (standby) power system to permit operation during a loss of normal power.

Refer to Piping System Equipment Reliability, Generator Power, and Capacity Matrix at the end of this section for pump redundancy.

Distribution

Piping shall be the same material and joint type as storm and clearwater drainage system(s).

DOMESTIC AND NON-POTABLE WATER

System Description

Domestic water will be provided to all toilet room fixtures, electric water coolers/drinking fountains, sinks, emergency shower/ eyewash units, and any other devices that require a domestic water supply.

Hot water at 120°F will be provided to all fixtures and devices that require hot water.

Emergency showers and eyewashes will be supplied with tepid water per the ANSI Z358.1 definition of tepid water.

All sinks and equipment located in laboratories and lab support spaces that require water will be supplied from a dedicated water system that is completely separate from the domestic water system. The laboratory water system will be isolated from the domestic water system by duplex reduced pressure backflow preventers. Hot water at 120°F will be provided to all fixtures and devices that require hot water.

Non-potable water system will provide make-up water to irrigation, mechanical (HVAC) systems such as heating hot water, chilled water, and cooling towers. A reduced pressure backflow preventer will protect the domestic water supply.

Design Criteria

Each water heater will be sized for 65% of the design hot water load at an outlet temperature of 120°F.

Backflow preventers will be sized for 100% of the design flow.

Equipment and Components

A water meter will be provided on the building service entrance. The water meter will be sized for the building's maximum design flow rate.

A water pressure booster pump system will be provided. The booster pump system will be configured such the system is capable of 100% of the total design flow with the loss of the largest pump.

Domestic hot water will be produced by triplex steam-fired, semi-instantaneous water heaters. Tube bundles in water heaters will be double walled.

Remote fixtures will be provided with hot water by electric instantaneous water heaters.

Booster water heaters will be provided as part of equipment, dishwashers, laundries, etc., which have water temperature requirements above the normal distribution temperature stated above.

The hot water system temperature will be maintained by recirculating the hot water through a continuous loop with an in-line circulating pump.

Water softener(s) will be installed ahead of the water heater(s).

Water hammer arrestors will be provided at all quick closing solenoid valves and at other potential water hammer sources.

Tepid water to emergency fixtures will be provided by a point of use thermostatic mixing valve with cold water bypass device at each fixture.

Refer to Piping System Equipment Reliability, Generator Power, and Capacity Matrix at the end of this section for water heater and pump redundancy.

Distribution

Waste System Materials		
Size	Below Ground	Above Ground
2" and Smaller	• Copper water tube, Type K, soldered joints and wrought copper fittings	• PEX- a, Engel-Method Crosslinked Polyethylene, ASTM F876/877 • Type L copper tube with soldered joints and wrought copper fittings
2-1/2" and Larger:	• Ductile iron, Class 52, AWWA C151, cement mortar lined with restrained mechanical joints and ductile iron fittings • PVC pressure pipe, DR 18, with integral bell and elastomeric gaskets and soldered joints with PVC schedule 80 socket pattern fittings	• Type L copper tube with brazed joints and wrought copper fittings with rolled groove couplings • 304L, schedule 10, stainless steel with welded joints and welded fittings

Piping 2-1/2" and larger and located in mechanical equipment rooms may be rolled groove mechanical joints.

The hot water system will be insulated in accordance with Code. The cold water system will be insulated to prevent condensation from forming. Isolation valves will be provided at all riser connections, branch piping run-outs to fixture groups, and at devices requiring maintenance.

The piping will be sized to limit the velocity in any section of the system to a maximum of 8 fps for cold water system and 4 fps for hot water and hot water circulating systems.

Plumbing Fixtures			
Fixture	Type	Operation	Flow Rate
Water Closets	Wall hung, vitreous china, with elongated bowls, high efficiency.	Flush valves will be diaphragm type, manual	1.28 gallon flush
Urinals	Wall hung, vitreous china, high efficiency	Flush valves will be diaphragm type, sensor operated, battery powered	0.5 gallon flush
Lavatories	Self-rimming. Refer to architectural floor plans for areas with wall hung units and counter mounted units.	Faucets will be hot and cold mixing type, wrist blade handles	0.5 gpm flow control
Sinks	Countertop mounted stainless steel	Faucets will be hot and cold mixing type.	1.5 gpm flow control

Plumbing Fixtures			
Fixture	Type	Operation	Flow Rate
Laboratory Sinks, Cup Sinks	Integral with casework. Faucets will be furnished with the casework and installed by the Division 22 contractor		
Showers	Built-up ceramic tile walls and floors with floors drains	Pressure balanced shower valves. Barrier-free showers will also have with hand spray with hose and adjustable wall bar	2.2 gpm flow control
Electric Water Coolers	Wall mounted, recessed self-contained, dual level with bottle filler	Manual push button operated, with stainless steel cabinets and disposable activated carbon water filters	
Janitor Sinks	Floor mounted, molded stone, with stainless steel splash wall panels	Faucets will be hot and cold mixing type with hose connections and elevated vacuum breaker	
Exterior Hose Bibbs	Flush mounted freeze resistant with vacuum breaker and loose key operator	Manual	-
Mechanical Room Hose Bibbs	Surface mounted with in-line vacuum breakers	Manual	-
Emergency Eyewashes	Counter mounted, fixtures will comply with ANSI Z358.1.	Manual, Stay open valve.	
Emergency Showers and eyewashes	Unfinished spaces will be free standing combination shower eyewash units with floor mounting flanges. The fixtures will comply with ANSI Z358.1. Finished spaces will be emergency showers and eyewashes with recessed stainless steel wall boxes with pulldown eyewash and pulldown shower operator. The showerhead will be wall mounted. Exposed piping will be brushed stainless steel. The fixtures will comply with ANSI Z358.1. Fixtures in laboratory areas will be furnished by the casework contractor and installed by the Division 22 contractor.	Manual, Stay open valve.	-

ANIMAL WATERING SYSTEM

System Description

An automatic watering system will not be provided. The watering system will be supplied manually.

HIGH PURITY WATER

System Description

A system will be provided to produce and distribute water meeting the quality requirements of NCCLS/CAP III from the facilities soft water system.

Water Quality				
Design Standard	Resistivity	Silica	Particulate	Bacteria
NCCLS/ CAP Type III	>0.1 MΩ-cm @25°C	1000 µg/L	No Standard	No standard

This system will not be validated.

Pure water will be continuously circulated in closed loops to users throughout the building.

Point of use polishing units will be provided for use points that require a higher level of quality water.

The system will be automatically monitored and controlled by a dedicated PLC based control system that will send a discrete alarm signal to the Building Automation System in the event of deviations.

Design Criteria

The system design will be based on performing sanitation using peracetic acid solutions.

The capacity of the production equipment and the storage tank will be based on the programmed use points and the following consumption estimates:

Use Point Type	Peak Flow Rate	Daily Usage
Laboratory Sink	1 gpm	15 gallons
Water Polisher	0.5 gpm	10 gallons
Glasswasher	5 gpm	40 gallons
Autoclave	8 gpm	40 gallons

The production equipment shall be sized to produce the total estimated consumption in 24 hours of operation. The capacity of the production system is estimated at 2 gpm.

The storage tank will be sized to provide storage for 24 hours of estimated usage. The size of the storage tank is estimated to be 1000 gallons.

The distribution system will be designed to maintain the temperature of the water under 80°F.

The distribution system will be designed to continuously circulate water at a minimum velocity corresponding to a Reynolds number of 20,000. The maximum demand for the distribution system shall be based on the previous peak flow rates with 50% diversity factor.

Equipment and Components

The production equipment is anticipated to consist of a prefilter, multimedia filter, carbon filter, water softener, double pass RO unit, two-bed deionization exchange cylinders, mixed bed deionization exchange cylinders, a one micron post filter, a 185 nm ultraviolet light, and a 0.2 micron final filter.

The distribution system equipment will include centrifugal pump(s) to provide circulation and 254 nm UV lights followed by 0.2 micron filters to control bacterial growth.

Materials in contact with pure water will be:

- Equipment: 316L stainless steel polished to 25 Ra
- Storage tank: vinyl ester, steam-cured fiberglass
- Piping: high purity Polypropylene
- Elastomers: Viton

Refer to Piping System Equipment Reliability, Generator Power, and Capacity Matrix at the end of this section for production and distribution equipment redundancies

Distribution

The distribution system will be comprised of 2 loops through which water will be continuously circulated. Each distribution loop will employ a series loop layout.

All tee connections shall be installed to minimize the dead leg. The distance from the sealing point on the branch to the inside of

the main line wall shall be less than six (6) branch line diameters.

Piping will be installed so that it is completely free draining. A minimum slope of 1/8 inch per foot will be maintained.

Sink use points shall be a non-recirculating faucets. Pipe loop drops within the room will be enclosed.

The quality of the water in the distribution system will be monitored by the PLC that will send a discrete alarm signal to the Building Management System in the event of deviations.

High Purity Water System Materials		
Service	Below Ground	Above Ground
High Purity Water	N/A	Polypropylene piping will be used for the distribution system. Joints will be made by socket heat fusion. Sanitary clamps or sanitary unions will be used where breakable connections are required. Piping will be continuously supported. Low extractable schedule 80 PVC, ASTM D1784, schedule 80 socket pattern fittings ASTM D2467, one step solvent cement

NITROGEN-LABORATORY SYSTEM

System Description

The nitrogen system will be provided to serve outlets as required by the Owner.

Design Criteria

The nitrogen system will be designed to provide 100 psig nitrogen at the most remote lab outlet. The system will be sized based upon a load of 1 scfm per outlet and the total number of connected outlets connected to the system. Any point loads for specific equipment will be added to the outlet load after any diversity factors are applied. The diversity factors indicated below will be used for determining the load for outlets:

Table 2			
Nitrogen System Diversity Factors			
Number of Outlets	Diversity Factor	Minimum Flow (scfm)	Empirical Formula for Flowrate (scfm)
1-5	1.00	0	No. of Outlets*1
6-12	0.80	5	5+(No. of Outlets 5)*5/7
13-33	0.60	10	10+(No. of Outlets 12)*10/21
34-80	0.50	20	20+(No. of Outlets33)*20/47
81-150	0.40	40	40+(No. of Outlets80)*20/70
151-315	0.35	60	60+(No. of Outlets150)*50/165
316-565	0.30	110	110+(No. of Outlets315)*60/250
566 and up	0.25	170	170+(No. of Outlets-565)*80/435

The nitrogen piping will be sized to limit the pressure drop across the system to 5 psi.

Laboratory systems are generally operated at 20 to 30 psig. Verify with Owner that this is the appropriate pressure range. Modify as required.

Equipment and Components

Nitrogen is anticipated to be from an exterior liquid nitrogen bulk tank and vaporizer. This is still under evaluation.

Refer to Piping System Equipment Reliability, Generator Power, and Capacity Matrix at the end of this section for nitrogen equipment redundancy.

Distribution

Nitrogen System Materials		
Service	Below Ground	Above Ground
Nitrogen	Carrier Pipe: As listed for above ground installation Containment Pipe: Schedule 40 clear PVC, longitudinally split, with rigid pipe centralizer and injection bonded joints.	Type L copper tube, ASTM B819 with brazed joints and wrought copper fittings, cleaned for oxygen service

Laboratory outlets will be needle-valve type outlets.

SPECIAL GASES-LABORATORY SYSTEM

System Description

Special gases will be provided to all points of use as required by the Owner. Special gases shall include but not be limited to: helium, argon, carbon dioxide, and hydrogen. Cylinders may also be user provided and placed adjacent to equipment or points of uses.

Design Criteria

The special gas system will be designed to provide required pressure at the most remote lab outlet as required by the program. The system will be sized based upon a load of 1 scfm per outlet and the total number of connected outlets connected to the system. Any point loads for specific equipment will be added to the outlet load after any diversity factors are applied. The diversity factors indicated below will be used for determining the load for outlets:

Table 2			
Special Gases System Diversity Factors			
Number of Outlets	Diversity Factor	Minimum Flow (scfm)	Empirical Formula for Flowrate (scfm)
1-5	1.00	0	No. of Outlets*1
6-12	0.80	5	5+(No. of Outlets5)*5/7
13-33	0.60	10	10+(No. of Outlets12)*10/21
34-80	0.50	20	20+(No. of Outlets33)*20/47
81-150	0.40	40	40+(No. of Outlets80)*20/70
151-315	0.35	60	60+(No. of Outlets150)*50/165
316-565	0.30	110	110+(No. of Outlets315)*60/250
566 and up	0.25	170	170+(No. of Outlets-565)*80/435

The special gases piping will be sized to limit the pressure drop across the system to 5 psi.

Equipment and Components

Special gases services will be supplied by a manifold system consisting of primary and reserve cylinders. The number of cylinders on each system will be based upon building use criteria, but will not be less than one cylinders per bank. The manifold system will be an automatic switchover type set to distribute special gases at the pressure required.

Refer to Piping System Equipment Reliability, Generator Power, and Capacity Matrix at the end of this section for special gas equipment redundancy.

Distribution

Special Gas System Materials		
Service	Below Ground	Above Ground
Helium, Argon, Carbon Dioxide	N/A	Type L copper tube, ASTM B819 with brazed joints and wrought copper fittings, cleaned for oxygen service for general purity gases
Hydrogen and ultra high purity gases	N/A	Type 316 stainless steel tubing with welded joints and fittings, cleaned for oxygen service

LABORATORY COMPRESSED AIR

System Description

Laboratory grade compressed air will be provided to all laboratory areas at a pressure of 100 psig and meeting ISO Class 1.2.1. Compressed air will be provided as required by the Owner.

ISO 8573-1:2010 Compressed Air Quality								
Class	Particles				Water			Oil
	By Particle (max number per m^3)			By Mass	Vapor Pressure Dewpoint		Liquid	Liquid, aerosol and vapor
	0.1-0.5 micron	0.5-1.0 micron	1.0-5.0 micron	mg/m^3	°C	°F	g/m^3	mg/m^3
0	As Specified By Equipment User or Supplier and More Stringent Than Class 1							
1	≤20,000	≤400	≤10	-	≤-70	≤-94	-	≤0.01
2	≤4000,000	≤6,000	≤100	-	≤-40	≤-40	-	≤0.1
3	-	≤90,000	≤1,000	-	≤-20	≤-4	-	≤1
4	-	-	≤10,000	-	≤ 3	≤ 37	-	≤5
5	-	-	≤100,000	-	≤ 7	≤ 45	-	-
6	-	-	-	≤5	≤ 10	≤ 50	-	-
7	-	-	-	5 to ≤10	-	-	≤0.5	-
8	-	-	-	-	-	-	0.5 to ≤5	-
9	-	-	-	-	-	-	5 to ≤10	-
X	-	-	-	>10	-	-	>10	>5

Design Criteria

Compressed air piping system will be sized based on 1 scfm per outlet plus any flow required for individual pieces of equipment. Diversity factors will be applied to laboratory outlets as indicated below:

Table 2			
Compressed Air System Diversity Factors			
Number of Outlets	Diversity Factor	Minimum Flow (scfm)	Empirical Formula for Flowrate (scfm)
1-5	1.00	0	No. of Outlets*1
6-12	0.80	5	5+(No. of Outlets5)*5/7
13-33	0.60	10	10+(No. of Outlets12)*10/21
34-80	0.50	20	20+(No. of Outlets33)*20/47
81-150	0.40	40	40+(No. of Outlets80)*20/70
151-315	0.35	60	60+(No. of Outlets150)*50/165
316-565	0.30	110	110+(No. of Outlets315)*60/250
566 and up	0.25	170	170+(No. of Outlets-565)*80/435

The compressors will be controlled by pressure switches in receiver set to operate between 100 and 115 psig. Each compressor will be sized for 40% of the maximum total demand. The compressors will be controlled on lead/lag/alternate basis.

Equipment and Components

Laboratory grade compressed air will be produced by oil-free rotary screw or scroll air compressors. Compressors will be base mounted. Air will be treated with coalescing filters, charcoal filters and particulate filters and dried with heatless desiccant air dryers. Compressed air will be stored in an ASME rated vertical receiver with outlet pressure regulator.

Refer to Piping System Equipment Reliability, Generator Power, and Capacity Matrix at the end of this section for equipment redundancy.

Distribution

Compressed Air System Materials		
Service	Below Ground	Above Ground
Compressed Air	N/A	Type L copper tube, ASTM B819 with brazed joints and wrought copper fittings, cleaned for oxygen service

LABORATORY VACUUM

System Description

Laboratory vacuum air will be provided to all laboratory areas as programmed. Vacuum will terminate at laboratory outlets or equipment connections as required.

Design Criteria

Laboratory vacuum piping system will be sized based on 0.5 scfm per outlet plus any flow required for individual pieces of equipment. Diversity factors will be applied to laboratory outlets as indicated below:

Table 2			
Laboratory Vacuum System Diversity Factors			
Number of Inlets	Diversity Factor	Minimum Flow (scfm)	Empirical Formula for Flowrate (scfm)
1-5	1.00	0	No. of Inlets*0.5
6-12	0.80	2.5	(5+(No. of Inlets5)*5/7)*0.5
13-33	0.60	5	(10+(No. of Inlets12)*10/21)*0.5

Table 2			
Laboratory Vacuum System Diversity Factors			
Number of Inlets	Diversity Factor	Minimum Flow (scfm)	Empirical Formula for Flowrate (scfm)
34-80	0.50	10	(20+(No. of Inlets33)*20/47)*0.5
81-150	0.40	20	(40+(No. of Inlets80)*20/70)*0.5
151-315	0.35	30	(60+(No. of Inlets150)*50/165)*0.5
316-565	0.30	55	(110+(No. of Inlets315)*60/250)*0.5
566 and up	0.25	85	(170+(No. of Inlets-565)*80/435)*0.5

The piping system will be sized to limit pressure drop across the system to maximum of 3" of mercury vacuum.

The pumps will be controlled by pressure switched in receiver set to operate between 25" and 29" of mercury vacuum. Each pump will be sized for 40% of the maximum total demand. The pumps will be controlled on lead/lag/alternate basis.

Equipment and Components

Laboratory vacuum will be produced by rotary vane vacuum pumps. Pumps will be base mounted. Vacuum will pass through a liquid separator and an ASME rated vertical receiver prior to passing through the pumps.

Refer to Piping System Equipment Reliability, Generator Power, and Capacity Matrix at the end of this section for laboratory vacuum equipment redundancy.

Distribution

Special Gas System Materials		
Service	Below Ground	Above Ground
Vacuum	N/A	Type L copper tube, ASTM B88 with soldered joints and wrought copper fittings
Vacuum Exhaust	N/A	Schedule 40 carbon steel with butt welded joints and fittings, cleaned for oxygen service Schedule 80 CPVC with solvent cement joints and fittings

NATURAL GAS

System Description

Natural gas is anticipated to be piped to equipment (ex: boilers, water heaters) as required to meet building needs. Gas pressure will be determined based on equipment requirements. Natural gas is anticipated to be a centrally piped and distributed system to serve lab and fume hood gas outlets food service equipment. Natural gas will be extended to the building from the gas company's natural gas main in the street. It is anticipated that the gas meter(s) will be located at grade at the service entrance to the building.

Design Criteria

All design and installation will be in accordance with the applicable codes.

Natural gas will be supplied at a pressure of 7" water column. The piping will be sized to limit the pressure drop across the system to 0.5" water column.

Natural gas shutoff valves, where required, will be located in ceiling spaces.

Natural gas piping system will be sized based on 5 cfh per outlet plus any flow required for individual pieces of equipment. Diversity factors will be applied to laboratory outlets as indicated below:

Table 2			
Natural Gas System Diversity Factors			
Number of Inlets	Diversity Factor	Minimum Flow (cfh)	Empirical Formula for Flowrate (cfh)
1-5	1.00	0	No. of Inlets*5
6-12	0.80	5	(5+(No. of Inlets5)*5/7)*5
13-33	0.60	50	(10+(No. of Inlets12)*10/21)*5
34-80	0.50	100	(20+(No. of Inlets33)*20/47)*5
81-150	0.40	200	(40+(No. of Inlets80)*20/70)*5
151-315	0.35	300	(60+(No. of Inlets150)*50/165)*5

Equipment and Components

Natural gas meter and building pressure regulating valves will be provided by and in accordance with gas utility company requirements.

Where shutoff valves are installed in valve boxes, the valve boxes will be steel frames with steel doors, piano hinges and level latches. All pipe penetrations through the box walls will be sealed.

Point of use pressure regulators will be self-operated spring-loaded constant pressure valves with internal relief capability.

Distribution

Natural Gas System Materials		
Size	Below Ground	Above Ground
2-1/2" and Smaller, Pressure Less than 1 psig:	Polyethylene tubing, SDR-11 with socket fusion fittings and joints. Anodeless gas riser will be used for transition from below ground to above ground pipe.	Schedule 40 carbon steel pipe with threaded joints and malleable iron fittings
Vacuum Exhaust	Polyethylene tubing, SDR-11 with butt fusion fittings and socket fusion joints. Anodeless gas riser will be used for transition from below ground to above ground pipe.	Schedule 40 carbon steel pipe with butt welded joints and fittings

Natural gas valves 2-1/2" and smaller will be two-piece ball valves with bronze bodies and stainless steel balls. Valves 3" and larger will be plug valves with cast iron bodies.

PIPING SYSTEM EQUIPMENT RELIABILITY, GENERATOR POWER, AND CAPACITY MATRIX

System	Component	Component Redundancy	Capacity	Generator Power
Domestic Cold Water	Booster Pump	3@50% (N+1)	300 gpm each	N
Domestic Hot Water	Steam Water Heater	3@65% (1.3N)	2,000 MBH each	N
Sump Pumps	Subsoil/Clearwater Sump Pumps	2@100% (N+1)	100 gpm each	Y
	Elevator Sump Pumps	1@100% (N)	50 gpm each	Y
On-site Water Reuse	Storage Tank(s)	1@100% (N)	25,000 gallons	N
	Filtration	N	50 gpm each	N
	Cistern Pumps	2@100% (N+1)	50 gpm each	N
	Booster Pumps	3@50% (N+1)	25 gpm each	N
Laboratory Waste System	Neutralization System	N	Varies	N
Purified Water	Carbon Filter	1@100% (N)	5 gpm each	N/A
	Reverse Osmosis Unit	1@100% (N)	1.5 gpm each	N
	Storage Tank(s)	1@100% (N)	1000 gallons each	N/A
	Distribution Pumps	2@100% (N+1)per loop	30 gpm each	N
	UV Lights	1@100% (N) per loop	30 gpm each	N
	Temperature Maintenance Cooling Heat Exchanger	1@100% (N)	25 MBH each	N/A
Laboratory Gases	Bottled Laboratory Gases		Varies	N/A
	Laboratory Compressed Air Package	3@40% (1.2N)	120 scfm each	N
	Laboratory Vacuum Package	3@40% (1.2N)	240 acfm each	N
	Nitrogen Bulk Gas	1@100% (N)	3000 gallons bulk	N/A

1. Capacities listed in matrix above are preliminary and are provided for cost estimating purposes only. Published equipment schedules should be used where available and supersede preliminary values listed above.

2. Refer to Generator Power Load matrix within the Electrical Basis of Design for further definition of the source of generator power.

3. Redundancy N+1 refers to system requiring N operating components to provide 100% of load with one additional component provided.

4. Redundancy 2N refers to system requiring N operating components with N operating components idle to provide 100% component redundancy.

6.6 MECHANICAL SYSTEMS

EXECUTIVE SUMMARY

Base Design Criteria

Outdoor Design Conditions			
		Dry Bulb Temperature (°F)	Wet Bulb Temperature (°F)
Summer	System Design(1)	87°F	75°F
Winter	System Design(2)	-20°F	-

(1) Based on Wisconsin Administrative Code SPS 363.0302 (Eau Claire County)

(2) Based on Wisconsin Administrative Code SPS 363.0302(Eau Claire County)

System Design Conditions		
System	Design Temperature (1) (°F)	Differential Temperature (1) (°F)
High Pressure Steam	338°F at 100 psig saturated	-
Medium Pressure Steam	316°F at 70 psig saturated	-
Low Pressure Steam	240°F at 10 psig saturated	-
Chilled Water	45	14
Process Chilled Water	58	6
Heating Hot Water	130	20

(1) Refers to circulated fluid temperature unless otherwise indicated.

Terminal Device Design Conditions		
System	Design Temperature (1) (°F)	Differential Temperature (1) (°F)
Cooling Coils	45	14
Preheat Coils	130	40
Reheat Coils	130	20
Perimeter/Misc. Heating	130	20
Humidifiers	240 (10 psig saturated)	N/A
Air Handling Unit Supply Air	55	N/A

(1) Refers to circulated fluid temperature unless otherwise indicated.

Indoor Design Conditions, Ventilation Rates and Pressure Relationships							
Space Criteria [1]							
Room	Temperature (°F) [2]		Humidity (%RH) [3]		Minimum Ventilation (ACH) [4]		Pressure Relationship
	Min.	Max.	Min.	Max.	Occ.	Unoc.	
Office, Conference and Administrative Support Areas	68	76	25	50	(5)		Neutral or Positive
Teaching and Research Laboratory	72	72	25	50	6	4	Negative
Lab Support Space (shared Equipment Spaces)	72	72	25	50	6	4	Negative
Cold Rooms	40 (year round)		Non-condensing (controlled)		0.5 cfm per sq ft	0.5 cfm per sq ft	Neutral
Greenhouse							
Vivarium	64-79		25	50	15	15	
a) Main humidification will be provided at air handling units. A booster humidifier will be provided on main supply duct serving Vivarium area (if required by programming) All spaces within Vivarium area will be provided with same humidity level and controlled via the booster humidifier.							
Toilet rooms/Janitor Closets					(5)		Negative
Corridor					(5)		Positive to Laboratory
Telecommunication Rooms	72 (year round)		Mechanical humidification not planned		NR		Neutral
Mechanical and Electrical Rooms	60-10°F over summer outdoor design temperature		Mechanical humidification not planned		NR		Positive
Elevator Machine Room	75 (year round)		Mechanical humidification not planned		NR		Neutral

(1) Minimum – Winter Heating
Maximum – Summer Cooling.
Occ. – Occupied Air Change Rate
Unoc. – Unoccupied Air Change Rate
NR – No requirement
N/A – Not applicable.

(2) Systems will be designed to meet the indicated temperature with a ± 2oF accuracy unless otherwise noted.

(3) Systems will be designed to meet the indicated relative humidity with a ± 5% accuracy unless otherwise noted.

(4) Total air changes per hour for supply air in positive pressure or neutral rooms, or return/exhaust air in negative pressure rooms.

(5) Based on Table 6-1 of ASHRAE 62.1 Standard 2013.

Assumed Heating and Cooling Loads					
Internal Load Density					
Space	Lighting Density (W/sf) (1)	Equipment Density (W/sf) (1)	Occupant		
			Occupants per 1000sf (2)	Sensible BTUH (3)	Latent BTUH (3)
Offices, Conference, and Administrative Support Areas	1.0	3.0	5	250	200
Conference	1.0	2.0	100	250	200
Teaching Laboratory and Research Laboratory	1.8	8.0	25	250	200
Laboratory Support Spaces (shared Equipment Spaces)	1.8	16	25	250	200
Cold Rooms	1.5	2.0	-	-	-
Greenhouse					
Vivarium	1.8	4.0	-	250	250
Telecommunication Rooms	1.0	To be determined by actual equipment load	-	-	-
NMR facility	To be determined by actual lighting load, but not less than 1.5 W/sf	To be determined by actual equipment load, but not less than 8.0	5	250	200
Corridor	1.0	0			

(1) Actual load will be used where higher than the listed value.

(2) Occupant density in each space will be based on code adopted ASHRAE Standard 62.1-2010 or the actual occupant density listed in the facility program.

(3) The occupancy heat rejection will be based on ASHRAE Handbook of Fundamentals 2013.

Infiltration

The building heat loss calculations will include an infiltration load for building perimeter spaces.

Type	Airflow
Exterior Wall with Windows	0.11 cfm per square foot of wall
Exterior Walls without Windows	0.06 cfm per square foot of wall
Main Exterior Doors	200 cfm per door
Loading Dock Doors	5 cfm per square foot of door opening area

Building Envelope

Performance criteria for building envelope construction materials will be in accordance with the data provided by Architect

Acoustic Criteria

Sound attenuation equipment will be provided based on standard design practice. Results are not guaranteed due to many items not under control of the design team and actual building usage.

Space Type	Initial Goals for NC Levels (1)
Laboratory with fume hoods	NC 50
Laboratory without fume hood	NC 45
Laboratory Support Spaces	NC 45
Open Office	NC 40
Private Office	NC 35
Conference Rooms	NC 35

(1) Based on 2015 ASHRAE Handbook – HVAC Applications.

(2) Measured dBA values will be approximately 5 points higher than average NC levels. A space with NC-40 will have an average sound level of 45 dBA.

(3) Sound attenuation equipment will be provided based on standard design practice and recommendations from acoustical consultant. Based on past experience, sound attenuation devices may be required for main air handling units and exhaust fans.

(4) Requirements and criteria will be further evaluated as design progresses

(5) The targeted noise levels assume an acoustical tile ceiling. If there is not acoustic tile ceiling, noise levels will be higher.

(6) The average noise level in laboratories, with fume hoods, shall be measured at three feet in front of a fume hood at five feet above finished floor level. The average noise level in all other spaces shall be measured in the middle of the room at five feet above finished floor level

(7) Fume hood manufacturers data indicates noise levels from a fume hood can be as high as NC=55, at a distance of 36" in front of the fume hood. Multiple fume hoods within the space can also increase noise levels above those of a single fume hood.

Systems Diversity

In conjunction with the variable flow systems serving the building, an HVAC equipment sizing diversity will be applied to the design supply air quantities for sizing the primary heating, and cooling system equipment. Diversity factors will be based on expected use factors and maximum building population.

System	Type	Diversity Factor
Terminal Systems	-	100%
Air Handling System	Occupant	85%
	Lighting	90%
	Equipment	85%
High Pressure Steam	-	85%
Low Pressure Steam		85%
Chilled Water		85%
Process Chilled Water		75%
Heating Hot Water		85%
Preheat Water		100%
Perimeter Heat Water		85%

Lab Equipment Exhaust

The exhaust air requirements for fume hoods will be based on maintaining a face velocity of 60 fpm through the open sash with the sash 100% open.

Acid, combustible, or flammable storage cabinets are not vented unless otherwise noted.

Hood Description/Exhaust Requirement:
6'-0" restricted sash (horizontal) bench hood: 615 cfm
4" point (snorkel) exhaust: 40 ~ 50 cfm

STEAM AND CONDENSATE SYSTEM

System Description

Distribution:
Steam will be generated by the boiler plant and distributed through campus system. Steam will be saturated. Steam and pumped condensate shall be extended from the existing distribution system and shall be routed to the new building. The preliminary calculated peak building steam load is estimated to be 27,500 PPH.

High pressure steam will be reduced by a pressure reducing

station to service the project's low pressure steam (10 psig) requirements.

The low pressure steam will be used in the facility for the following applications:

- Steam to Hot Water Convertor
- Humidification
- Domestic and Lab Hot Water Heaters

High pressure steam will be reduced by a pressure reducing station to service the project's medium pressure steam (70 psig) requirements.

The medium pressure steam will be used in the facility for the following applications:

- Glasswash equipment (non-contact)
- Autoclaves/Sterilizers

High pressure condensate will be flashed to low pressure condensate in flash tanks.

Steam condensate returned back to the boiler plant will be metered. Meter will be fitted with a pulse initiator and wiring connected to the Building Automation System (BAS).

System Warm-up Method

Supervised warm-up will be used instead of automatic warm-up. Steam main drip leg length and traps will be sized based on supervised warm-up method.

In addition to the pressure reducing valves, a manual bypass valve will be provided at each reducing station for redundancy.

Equipment and Components

Steam safety valve(s) will be sized based on the capacity of the largest valve of the PRVs (at full port) or the bypass valve, not the total capacity of all PRVs. Safety valve vent pipes will be piped up through the roof to a minimum of 8 ft above roof.

Pressure reducing valves will be self-contained, pilot-operated type. Two pressure reducing valves per PRV station will be utilized and valves will be sized at 1/3 and 2/3 of the design load.

CHILLED WATER SYSTEM

Generation:
Chilled water will be generated at the existing chilled water plant and distributed through campus system.

Distribution:
Chilled water shall be extended from the existing distribution system and routed to the new building.

Building:
Chilled water system within the new building shall consist of distribution piping, cooling coils in air handling units, heat exchangers for process cooling water system and fan coil units. The preliminary calculated peak building chilled water load is estimated to be 1,400 Tons.

Chilled water system will be variable volume system utilizing a modulating 2-way control valve at each cooling coil.

Chilled water usage will be metered via automated BTU meter with flow rate, supply temperature and return temperature input. Data will be input to Building Automation System (BAS).

Equipment and Components

The chilled water system will also include the following components:

- Cooling coils
- Appropriate valving and piping specialties

Sub circuits will be selected for linear control characteristics of the terminal device and control valve combination.

All major control valves will be sized by engineering calculations for linear control.

PROCESS COOLING SYSTEM

System Description

Process cooling will be piped to various process equipment in the facility including cold rooms and laboratory equipment.

Process cooling water will be generated by utilizing chilled water supplied from the building chilled water system through water-to-water heat exchangers. Associated modular air-cooled chiller with drycooler and pumps shall be provided to provided process cooling water during periods when chillers are not operating at the plant.

Equipment and Components

Distribution pumps will be end suction type.

Heat exchangers will be plate and frame type.

The system will also include the following components:

- Chemical pot feeder
- Air separator
- Bladder type expansion tank
- Make-up water assembly
- Bag type water filter 10% side stream
- Air-cooled chillers with drycooler
- Chiller/Drycooler pumps
- Appropriate valving and piping specialties

Process cooling water system will be variable volume system utilizing modulating 2-way control valves at a majority of the equipment served. A bypass will be provided at the most remote equipment served on each floor to maintain minimum flow in the process cooling water system. Each distribution pump will each be provided with a VFD.

Differential pressure transmitters between the process cooling water supply and return mains will be utilized to vary the speed of the secondary pumps, via the VFD's, to maintain a constant pressure differential between the piping mains.

HEATING HOT WATER SYSTEM

System Description

Heating hot water system will serve AHU heating coils and terminal heating devices such as reheat coils, unit heaters, radiant panels, and cabinet unit heaters.

Heating hot water system will be variable volume system utilizing a modulating 2-way control valve at each terminal heating device. Distribution pumps will each be provided with VFD.

A differential pressure transmitter between the supply and return mains will be utilized to vary the speed of the pumps, via variable frequency drives, to maintain a constant pressure differential between the piping mains.

Each preheat coil will be served by a coil pump circuit which will maintain constant flow through the preheat coil. A modulating 2-way control valve will be provided at each preheat coil pump circuit to maintain the required water temperature in the pumped coil circuit.

Equipment and Components

Distribution pumps will be base mounted end suction centrifugal type with VFDs.

The heating and reheat water system will also include the following components:

- Chemical pot feeder
- Air separator
- Bladder type expansion tank
- Make-up water assembly
- Reheat coils
- Unit heaters
- Cabinet unit heaters
- Appropriate valving and piping specialties

GLYCOL WATER HEAT RECOVERY SYSTEM

System Description

Glycol water heat recovery system pumps will circulate glycol water to heat recovery coils located in laboratory air handling units and to heat recovery coils located in exhaust systems to recover waste heat. Glycol heat recovery system will utilize a 45% ethylene glycol/water solution.

Equipment and Components

Distribution pumps will be end suction centrifugal type.

The system will consist of the following additional components:

- Bladder type expansion tank
- Air separator
- Glycol water make-up system
- Appropriate valving and piping specialties

Piping Distribution Criteria			
System	Material	Size Criteria	Pipe and Fitting Insulation
High Pressure Steam (100), high pressure condensate (100), and pumped condensate in Existing Tunnels and Steam Pits/Vaults, and enclosed soffit areas	Carbon steel piping shall be provided with socket welded fittings for pipes 2" and smaller and welded fittings for pipes 2-1/2" and larger. High pressure steam piping shall be Standard Weight (STD) High pressure condensate and pumped condensate shall be extra strong (XS)	High pressure steam main distribution shall be 12" Pumped condensate main distribution shall be 4" High pressure condensate from drip traps shall be sized based on load and velocity. Building branch service to be sized per building sizing requirements.	High pressure steam main distribution or high pressure condensate shall be minimum 2.8" thick Aerogel or 5" mineral Wool with aluminum jacket. Pumped condensate main distribution shall be minimum 1.2" thick Aerogel or 2" thick mineral wool with aluminum jacket.
Steam and Condensate System in Building	Steam piping will be Standard Weight (ST) Condensate piping will be Extra Strong (XS). Plant steam and condensate will be distributed through carbon steel piping with threaded fittings for pipes 2" and smaller and welded fittings for pipes 2-1/2" and larger.	Steam piping for steam pressures equal to or less than 15 psig will be sized for a maximum pressure drop of 3/4 psi/100 ft of pipe and a maximum velocity of 6,000 fpm. Steam piping for steam pressures greater than 15 psig will be sized for a maximum pressure drop of 2 psi/100 ft of pipe and a maximum velocity of 8000 fpm. For gravity condensate return piping, sizing criteria on Table 21 of ASHRAE Handbook of Fundamentals – 2013 Chapter 22 will be used. The capacity of Table 21 which is based on ST steel pipe will be adjusted to XS steel pipe.	Rigid glass fiber insulation with appropriate insulation jacket
Steam Condensate Pumped Discharge in Building	Condensate piping will be Extra Strong (XS). Condensate will be returned through carbon steel piping with threaded fittings for pipes 2" and smaller and welded fittings for pipes 2-1/2" and larger.	Maximum pressure drop of 4 ft of water/100 ft of pipe for piping 1" and larger. 2 fps minimum velocity to 8 fps maximum velocity.	Rigid glass fiber insulation with appropriate insulation jacket
Humidification	Piping will be carbon steel with threaded fittings for piping 2" and smaller and with welded fittings for piping 2-1/2" and larger.	For steam pressure equal to or less than 15 psig will be sized for a maximum pressure drop of 3/4 psi/100 feet of pipe and a maximum velocity of 6000 fpm.	Rigid glass fiber insulation with appropriate insulation jacket

Piping Distribution Criteria			
System	Material	Size Criteria	Pipe and Fitting Insulation
Chilled Water	Type L copper piping with soldered fittings for pipes 2" and smaller and ST carbon steel piping with welded fittings for pipes 2-1/2" and larger. Unions will not be provided at terminal heating devices in copper piping.	Maximum pressure drop of 4 ft of water/100 ft of pipe for piping 6" or smaller. 10 fps maximum velocity for piping 8" and larger.	Polyicocyanurate type insulation with appropriate insulation jacket.
Chilled Water (Main distribution Below Ground direct buried)	PE4710 IPS or DIPS DR-11 HDPE piping.	30" outside diameter supply and return piping for main distribution. Building branch supply sized per building requirements.	none
Heating Hot Water	Type L copper piping with soldered fittings for pipes 2" and smaller and ST carbon steel piping with welded fittings for pipes 2-1/2" and larger. Unions will not be provided at terminal heating devices in copper piping.	Maximum pressure drop of 4 ft of water/100 ft of pipe for piping 6" or smaller. 10 fps maximum velocity for piping 8" and larger.	Rigid glass fiber insulation with appropriate insulation jacket
Preheat Water	Type L copper piping with soldered fittings for pipes 2" and smaller and ST carbon steel piping with welded fittings for pipes 2-1/2" and larger.	Maximum pressure drop of 4 ft of water/100 ft of pipe for piping 6" or smaller. 10 fps maximum velocity for piping 8" and larger.	Rigid glass fiber insulation with appropriate insulation jacket
Glycol Water Heat Recovery	Type L copper piping with soldered fittings for pipes 2" and smaller and ST carbon steel piping with welded fittings for pipes 2-1/2" and larger.	Maximum pressure drop of 4 ft of water/100 ft of pipe for piping 6" or smaller. 10 fps maximum velocity for piping 8" and larger.	Rigid glass fiber insulation with appropriate insulation jacket
Process Cooling	Type L copper piping with soldered fittings for pipes 2" and smaller and ST carbon steel piping with welded fittings for pipes 2-1/2" and larger. Unions will not be provided at terminal heating devices in copper piping.	Maximum pressure drop of 4 ft of water/100 ft of pipe for piping 6" or smaller. 10 fps maximum velocity for piping 8" and larger.	Rigid glass fiber insulation with appropriate insulation jacket

HVAC AIR SYSTEMS DESCRIPTIONS

This section includes general descriptions for HVAC air systems.

Air Handling Systems

System Description

Combined Laboratory Air Handling System

Multiple air handling units will serve the laboratory, laboratory support spaces, and vivarium spaces for the building. The discharges from the air handling units will be manifolded into one central supply air system. The system will be a single duct, partial return air, variable air volume, reheat system, providing heating, cooling and humidification to the spaces. The preliminary calculated peak laboratory air handling system airflow is estimated to be 300,000 cfm.

System will consist of factory fabricated semi-custom air handling units.

The air handling units will operate in parallel as a single supply air system.

No air from the fume hoods, laboratory spaces, or vivarium spaces will be returned to the air handling units.

A portion of the air handling units shall be served with energy recovery wheels and the remaining air handling units will be served with run-around glycol heat recovery coils. The portion of units with energy wheels will be determined as definition of general vs fume exhaust is determined in the next design phase.

Each combined laboratory air handling unit will be sized to provide 20% of the system design airflow (60,000 cfm). All air handling units will operate to maintain system flowrate. The supply fans and coils will be sized to accommodate the required heating/cooling with the loss of one air handling unit to maintain minimum air change rates in the laboratories and vivarium during time of outages.

All air handling units shall be served from emergency power, only three air handlings unit will be allowed to operate during power outages. Supply air will be prioritized through the building controls to be delivered to the laboratory for fume hood exhaust make-up air, vivarium spaces and to minimally ventilate the laboratory space.

Air handling units will continue to operate upon activation of the building fire alarm system. Local duct mounted smoke detectors will activate duct smoke dampers closed. Air handling unit mounted smoke detectors will deactivate their respective air handling unit upon detection of smoke.

Air handling units will operate 24 hours per day, 365 days per year.

Office/General Air Handling System

Factory packaged air handling unit will be provided to serve office, conference and general areas of the building.

System will be a single duct variable air volume reheat system, providing heating, cooling, and humidification control to the spaces.

Air will be supplied to all appropriate spaces and a portion of this air will be returned to the air handling unit or relieved to outside via in-line return fan. The remaining portion of air not returned to the air handling unit will be utilized as make-up air for the exhaust systems and building pressurization.

Ducted return air system will be used instead of return air ceiling plenum to return air from the spaces back to the AHU.

Air handling system will operate with occupied, unoccupied and morning warm-up control cycles.

Mechanical / Electrical Room Air Handling Systems

Individual air handling units will provide ventilation for the penthouse mechanical room, electrical room and emergency generator room. Systems will be single duct, variable air volume with return air.

System will consist of one packaged air handling unit.

Air handling unit will operate as required.

Equipment and Components

Components		AHU Systems	
	Combined Laboratory	Office/General	Mechanical
Supply Air Module			
Outside Air Intake Damper	X	X	X
Air Mixing Device		X	
Run-around heat recovery coils	X		
Total Energy Recovery Wheel	X		
Return Air Mixing Chamber		X	X
Glycol Run-Around Coil	X	X	
Hot Water Preheating Coil	X	X	
Steam Humidifier	X	X	
Chilled Water Cooling Coils	X	X	
Supply Fan Arrangement	Multi-fan array(2)	Multi-fan array(2)	DWDI
Supply Fan to VFD ratio	All fans served by single VFD	All fans served by single VFD	1:1
Sound Attenuator	Duct mounted supply air		
MERV 8 2” Prefilters	X	X	X
MERV 14 Bag Final Filters	X	X	
Isolation/Smoke Dampers	X	X	
Electronic Airflow Measuring Stations	X	X	
Return Air Module			
Return Fan Arrangement		Inline	
Isolation/Smoke Dampers		X	
Return Air Damper		X	
Relief Air Damper		X	
Electronic Airflow Measuring Stations		X	

(1) Components are not listed in airflow tunnel order.

(2) Quantity of fans dependent on size of unit. Utilize economies of scale to select the appropriate number of fans for each individual unit.

Supply fans will be plenum or double width double inlet centrifugal type with airfoil blades. Fan speed and air volume will be modulated through variable frequency drives (VFDs) controlled by supply duct static pressure controller.

Return fans will be mixed flow type with air foil blades. Fan speed and air volume will be modulated through VFDs controlled by return fan discharge static pressure controller.

Design Criteria

Air Handling Unit Maximum allowable nominal face velocities at Maximum airflow	
Air Intake Louvers	400 fpm through free area of louver
Hot Water Heating Coils	650 fpm
Energy Recovery Coil	500 fpm
Chilled Water Cooling Coils	350 fpm
Pre-filters	350 fpm
Final-filters	350 fpm
Sound Attenuating Devices	Located in ductwork: Maximum 1,200 fpm or maximum 0.25" w.g.

LABORATORY EXHAUST SYSTEMS

System Description

General Building Exhaust System

The laboratory general exhaust and general areas in the building will be served by a central exhaust air system. The system will combine exhaust air from the laboratory general exhaust, building general exhaust and toilet exhaust.

System will consist of exhaust fans connected to a common exhaust fan inlet plenum. The fans are intended to operate in parallel and will each be sized for a fraction of the design load.

The exhausts from the laboratories and general spaces will operate on a variable volume basis. The speed of the exhaust fans will modulate to provide the required system exhaust rate to maintain the static pressure set point, as measured by static pressure sensors located within the ductwork

Heat wheels will be provided in a portion of the supply air handling units. Isolation dampers will be provided at the inlet and the outlet side of the heat wheels. A by-pass duct with isolation damper will be provided around the heat wheels, and associated isolation dampers to allow servicing of heat wheels without shutting down the system.

System will operate 24 hours per day, 365 days per year.

Laboratory Fume Exhaust System

The laboratories will be served by a central fume exhaust air system. The system will combine laboratory fume hood, snorkel, and canopy hoods.

System will consist of exhaust fans connected to a common exhaust fan inlet plenum and will be located on the roof. The fans are intended to operate in parallel and will each be sized for a fraction of the design load.

Heat recovery coils will be provided in the heat recovery plenums.

Cold rooms that are work-in will be exhausted via a small constant volume exhaust terminal unit. Make up air is from the adjacent laboratory spaces.

Laboratory fume exhaust system will be variable air volume. The speed of the exhaust fans will modulate to provide the required system exhaust rate while also maintaining the minimum exhaust stack discharge velocity. The exhaust fans will operate in parallel, with the outside air bypass damper closed, to maintain the static pressure set point, as measured by static pressure sensors located within the ductwork. When the exhaust airflow requirement for the system drops, the exhaust fan speed would be reduced accordingly, until the fan speed reaches the minimum set point, as defined in the control system to maintain the minimum required exhaust discharge stack velocity (as defined by wind tunnel consultant). The exhaust fans will continue to operate at this minimum speed and the outside air bypass damper at the heat recovery plenum will be modulated to maintain the minimum static pressure set point as measured by the static pressure sensor in the exhaust fan inlet plenum. If the exhaust requirements for the system become greater, the opposite sequence will occur.

System will operate 24 hours per day, 365 days per year.

Vivarium Exhaust System

The Vivarium spaces will be served by a central exhaust air system. The system will combine animal holding rooms and associated support rooms.

System will consist of exhaust fans connected to a common

exhaust fan inlet plenum and will be located on the roof. The fans are intended to operate in parallel and will each be sized for a fraction of the design load.

Heat recovery coils will be provided in the heat recovery plenums.

The exhausts from the vivarium will operate on a variable volume basis. The speed of the exhaust fans will modulate to provide the required system exhaust rate while also maintaining the minimum exhaust stack discharge velocity. The exhaust fans in each system will operate in parallel, with the outside air bypass damper closed, to maintain the static pressure set point, as measured by static pressure sensors located within the ductwork. When the exhaust airflow requirement for the system drops, the exhaust fan speed would be reduced accordingly, until the fan speed reaches the minimum set point, as defined in the control system to maintain the minimum required exhaust discharge stack velocity of 3,000 fpm. The exhaust fans will continue to operate at this minimum speed and the outside air bypass damper at the heat recovery plenum will be modulated to maintain the minimum static pressure set point as measured by the static pressure sensor in the exhaust fan inlet plenum. If the exhaust requirements for the system become greater, the opposite sequence will occur.

System will operate 24 hours per day, 365 days per year.

Equipment and Components

Components	General Building Exhaust	Laboratory Fume Exhaust	Vivarium Exhaust
Common exhaust fan intake plenum	X	X	X
Sound attenuating device.	X	X	X
Isolation damper at each fan inlet.	X	X	X
Exhaust fans	Mixed Flow Inline/ Plenum	SWDI Centrifugal fan	SWDI Centrifugal fan
Exhaust stack for each fan discharge.		X	X
Outside air bypass ductwork with sound attenuating device, control damper, and appropriate balancing devices.		X	X
MERV 8 Filters	X	X	X
Heat recovery coils with coil with by-pass duct and dampers		X	X
Energy Recovery Wheel	X		

Fume exhaust fans will be of AMCA Class “C” spark-proof construction with bearings and motors out of the air stream. Motors will have electric brakes to prevent counter rotation during start up.

Fume exhaust fans and heat recovery coils will have baked heresite chemical resistant coating on surfaces in contact with air stream.

Fume exhaust fans will have packless type sound attenuating devices on the exhaust main (as required), and the outside air by-pass duct.

Heat recovery coil will be provided at the inlet of the fume exhaust fans. 30% pleated filters will be provided at the inlet of coil with face damper and by-pass damper/duct around filter and coil to allow serving of filter and coils while the exhaust fans are operating. Heat recovery coils and filters will be located in penthouse. The heat recovery pumps will be variable volume and will be stopped when heat recovery is not effective to reduce system energy consumption.

Energy recovery wheels will be provided at the inlet of the general exhaust fans. 30% pleated filters will be provided at the inlet of wheel with face damper and by-pass damper/duct around filter and wheel to allow serving of filter and wheels while the exhaust fans are operating.

Design Criteria

Exhaust System Unit Maximum allowable nominal face velocities or pressure drop	
Heat Recovery Coils	500 fpm
Energy Recovery Wheel	650 fpm
MERV 8 Filters	500 fpm

AIR TERMINAL DEVICES

Individual spaces up to three spaces having a common exterior exposure or a common interior space, and common occupancy, will be served by one supply air terminal (AT) device.

One air terminal device will be provided where individual space temperature control is required.

Return air terminal devices will be provided for rooms requiring pressure control.

Air terminal devices will be utilized for fume hoods, biosafety cabinets, snorkel exhausts, and general exhaust.

Air Terminal Devices			
Spaces and System	Service	Type	Sound Attenuation
General / Lecture	Supply	Galvanized steel single blade damper ATs will have internal liner with airflow measuring ring. (1)	(2)
	Return/Exhaust	Galvanized Steel single blade damper ATs will have internal liner with airflow measuring ring. (1)	(2)
Laboratory	Supply	Supply Galvanized steel single blade damper ATs will have internal liner with airflow measuring ring. (1) (4)	(2)
Vivarium Exhaust	General Room Exhaust	Galvanized steel single blade damper ATs will have internal liner with airflow measuring ring. (1)	
	Fume Hood, Snorkel and Canopy Hood	Heresite coated aluminum, two position, pressure independent Venturi type ATs will have characterized plunger and fast acting 24V actuator.	
General Building Exhaust	General Room Exhaust	Galvanized steel single blade damper ATs will have internal liner with airflow measuring ring. (1)	
Laboratory Fume Exhaust	Fume Hood, Snorkel and Canopy Hood	Heresite coated aluminum, two position or variable air volume, pressure independent Venturi type ATs will have characterized plunger and fast acting 24V actuator.	

(1) ATs will be provided with system pressure independent DDC controllers with 24 V electric actuators.

(2) Ductwork will be lined for 5 ft downstream of air terminal devices. Sound attenuating flexible duct up to 6 ft in total length, will be provided at the diffusers and grilles to control noise. Sound attenuators at the discharge of supply and inlet of exhaust/return air terminal devices will not be provided unless required to meet noise criteria.

(3) Sound attenuating flexible duct up to 6 ft in total length, will be provided at diffusers and grilles to control noise. Sound attenuators at the discharge of supply and inlet of exhaust/return air terminal devices will be provided to meet noise criteria.

(4) High density fume hood labs will require supply air terminals to be venturi type.

GENERATOR EXHAUST SYSTEM

System Description

System will consist of generator exhaust piping from the outlet of the generator engine exhaust muffler and extend above the roof.

Design Criteria

Exhaust system will be designed per manufacturer's recommendations or within maximum backpressure of 27" WG.

DUCTWORK SYSTEMS

Ductwork will be constructed in accordance with SMACNA Standards for appropriate pressure class. Ductwork will be sealed to meet SMACNA Seal Class A as a minimum and to limit ductwork leakage not exceeding 1% of the design flow rate for high pressure ductwork and 2% for low pressure ductwork.

Duct System Distribution Criteria based on diversified CFM where applicable.

Supply and Return/Exhaust System with Air Terminals

Description	Construction	Design Criteria	Insulation
Shaft	Galvanized Steel	(1)	Fiberglass insulation
Air Handling Unit to Air terminal (AT) Device	Galvanized Steel	(1)	Fiberglass insulation
Air Terminal Device to Supply Diffuser	Galvanized Steel Ductwork will be lined for 5 ft downstream of air terminal devices	(2)	Fiberglass insulation
Return/Exhaust Ductwork Sizing	Galvanized Steel	(2)	None
Return/Exhaust Grille to AT	Galvanized Steel	(2)	None
Return/Exhaust Air Terminal (AT) Device to fan	Galvanized Steel	(1)	None

(1) Maximum pressure drop of 0.15"/100 ft when ≤ 10,000 cfm
Maximum velocity of 2,000 fpm when > 10,000 cfm
Maximum velocity of 2,500 fpm when > 10,000 cfm
in mechanical room, risers in shafts, and where space constraints dictate quantity of fans dependent on size of unit. Utilize economies of scale to select the appropriate number of fans for each individual unit.

(2) Maximum pressure drop of 0.1"/100 ft when ≤ 8,000 cfm
Maximum velocity of 1,600 fpm when > 8,000 cfm

General Building Exhaust

System	Construction	Design Criteria	Insulation
Exhaust Grille to Air Terminal Device	galvanized steel	(1)	None
Main to Heat Recovery Device	galvanized steel	(2)	None
Heat Recovery Device to Fan Inlet	galvanized steel	(2)	None

(1) Maximum pressure drop of 0.1"/100 ft when ≤ 8,000 cfm

(2) Maximum pressure drop of 0.15"/100 ft when ≤ 10,000 cfm
Maximum velocity of 2,000 fpm when > 10,000 cfm

Laboratory Fume Exhaust

System	Construction	Design Criteria	Insulation
Fume Hood, Snorkel, Canopy Hood, etc. to Air Terminal Device	PVC coated steel	(1)	None
Fume Hood, Snorkel, Canopy Hood Run-Outs - Air Terminal Device to Main	PVC coated steel	(2)	None
Main to Heat Recovery Device	PVC coated steel	(2)	None
Heat Recovery Device to Fan Inlet	PVC coated steel	(2)	None
Exhaust Fan Stack Discharge Velocity	+10" Pressure class 316 stainless steel, all welded construction	(3)	None

(3) Maximum pressure drop of 0.1”/100 ft when ≤ 8,000 cfm

(4) Maximum pressure drop of 0.15”/100 ft when ≤ 10,000 cfm
Maximum velocity of 2,000 fpm when > 10,000 cfm

(5) Nozzle velocity 3000 – 3500 fpm

Generator Exhaust

Piping system will utilize welded carbon steel piping with stainless steel bellows type expansion joints.

Piping and muffler will be insulated with 4” hydrous calcium silicate and aluminum jacket.

Generator exhaust system will extend from the outlet of the generator engine exhaust muffler to a minimum of 8 feet above the roof.

Generator Ventilation

Duct sizing criteria of outside air ductwork, radiator exhaust air ductwork, outside air dampers, radiator exhaust air dampers, outside air SAD and radiator exhaust air SAD will be sized not to exceed 0.5” WG static pressure.

MISCELLANEOUS SYSTEMS

Elevator Machine Rooms

Elevator machine rooms will be provided with single fan coil unit, return/relief fans for economization as required, associated control dampers and ductwork to maintain required space temperatures depending on the room size and HVAC load.

Fan coil unit to include supply fan driven by electronically commutated motor, filters, and chilled water cooling coil.

Technology Space Cooling

Intermediate Distribution Framework (IDF) Rooms that require cooling will be provided with self-contained fan-coil units to maintain required space temperature and humidity.

Fan coil unit to include supply fan driven by electronically commutated motor, filters, and chilled water cooling coil.

6.7 ELECTRICAL SYSTEMS

EXECUTIVE SUMMARY

Electrical systems for the new University of Wisconsin-Eau Claire Science/Health Science Building will include normal, emergency and standby power, building lighting, lightning protection and fire alarm.

Notable electrical design features include:

- Power to be provided at 12.47kV Medium Voltage from existing campus infrastructure
- Redundancy on Medium Voltage side from single switch with multiple sources upstream
- Emergency and standby power from new diesel generator on grade
- A centralized UPS system will be investigated for this facility. Telecommunication, building automation, security, Cray computer system, and select laboratory equipment may be fed from this distribution system if deemed appropriate by UW-Eau Claire and the DFD.
- Metering per sustainability and LEED requirements
- Dark sky lighting fixtures to be provided on exterior building mounted fixtures and site lighting fixtures.
- PV – Equipment space and pathways will be provided for a photovoltaic system comprised of roof mounted solar panels and inverter systems. The solar panels will be located over the penthouse roof area with an estimated capacity of 25-40kW (1% per DFD Guidelines) depending on final building energy consumption projections.
- Small animal and Aquatics vivarium will be included with specialized lighting and power requirements
- Greenhouse to be located on the roof to include specialized lighting. Greenhouse to be turnkey design with utilities routed to greenhouse on roof.
- Planetarium to be located on level 1.

System descriptions below will describe in greater detail the specifics of each system.

Base Design Criteria

Applicable Codes and Standards:

Wisconsin Administrative Code, including SPS 316
Division of Facilities Design (DFD) Electrical Systems Standards and Design Guidelines
Division of Facilities Development and Management Policy and Procedure Manual for Architects/Engineers and Consultants
Division of Facilities Development Daylighting Standards for State Facilities
IEEE – Institute of Electrical and Electronics Engineers
IESNA – Illuminating Engineering Society of North America
NEC – (2017) National Electrical Code
NECA – National Electrical Contractors Association
NEMA – National Electrical Manufacturers Association
UL – Underwriters Laboratories
NFPA 72 – (2016) National Fire Alarm and Signaling Code
NFPA 101 – (2015) Life Safety Code
NFPA 110 – (2016) Standard for Emergency and Standby Power Systems
TIA 607-D – Generic Telecommunications Bonding and Grounding for Customer Premises

Desgin Voltages	
Type	Voltage
Building Service	12.47kV, 3 phase, 3 wire + ground
Motors; ½ HP and larger	480V, 3 phase, 3 wire
Motors; less than ½ HP	120 or 208 Volts, 1 phase, 2 wire + ground
Lighting	277 Volts, 1 phase, 2 wire + ground
Specific Equipment	480 Volts, 3 phase, 3 wire + ground
Lab Support and Specialty Equipment	208Y/120V, 3 phase, 4 wire
Receptacles	120V, 1 phase, 2 wire + ground

Equipment Sizing Criteria

Branch Circuit Sizing Criteria	
Type	Load
Lighting	Actual Installed VA
Receptacles	180 VA per outlet (duplex or single)
Multiple Outlet Assemblies	180 VA per 2'-0"
Special Outlets	Actual Installed VA of Equipment Served
Motors	125% of Motor VA
Special Equipment	Actual Installed VA

Diversity Factor

Diversity factors will be used, per the Wisconsin Administrative Code, in establishing power service, feeder and equipment capacities. The diversity factor represents the ratio of the sum of the individual non-coincident maximum demands of various subdivisions of the system to the maximum demand of the complete system and will be established using historical data from similar buildings in conjunction with industry standards.

Long Continuous Load/Demand Factors Criteria	
Type	Load
Lighting (Continuous Loads)	125% of installed VA
General Receptacles	100% of first 10 kVA installed plus 50% of remainder
Motors	125% of VA of largest motor plus 100% of VA of all other motors
Fixed Equipment	100% of total installed VA

Load Calculation Criteria

Functional Area Load Density Criteria – Peak Connected		
Functional Area	Service Load Density (VA/sq ft)	EM-SB Load Density (VA/sq ft)
Office Receptacle	4.0	0.0
Lighting	0.7	0.2
Teaching Lab	8.0	2.0
Teaching Lab Support	12.0	4.0
Research Lab	12.0	4.0
Research Lab Support	30.0	4.0
General Receptacle	2.0	0.0
Animal Holding	2.0	1.0
Classroom	4.0	0.0
Conference Rooms	4.0	0.0
Corridor	1.0	0.0
Public Space	2.0	0.0
Building Support	2.0	1.0

Notes:
1. VA/sf values is based on historical data from projects with similar program elements.
2. EM-SB = Emergency -Standby

Mechanical Equipment Load Density Criteria - Peak Connected		
Mechanical System	Service Load Density (VA/sq ft)	EM-SB Load Density (VA/sq ft)
Ventilation (V)	8.0	4.0
Refrigeration Systems (Process and Comfort) (R)	1.75	0.6
Heating Systems (H)	0.75	0.5
Piping Systems (P)	0.5	0.1
Miscellaneous Equipment (M)	1.0	0.0
Fire Protection Systems (FP)	0.75	0.75
Elevators (EL)	0.75	0.75

Notes:
1. VA/sf are values have been calculated using the equipment data list established for use on this project.
2. EM-SB = Emergency - Standby

Load Tables

System Capacity and Calculated Demand Load		
Building Load Summary		
	Normal Power	Standby Power
kVA	2,719	1,296
VA/SF	8.54	4.07
W/SF	7.6	3.63

Notes:
1. Calculation assumes supporting approximately 318,500 GSF.
2. Includes 20% spare capacity.
3. Power factor is anticipated to be 90% and is derived from historical data on recent projects with similar program elements.

SYSTEMS DESCRIPTIONS

Electrical Service

System Description

Primary electric service at 12.4kV voltage will be derived from the UW-Eau Claire campus utility grid.

One new dedicated feeder will be extended to the facility originating from Pad SG #18 adjacent to Vicky Lord Larson Hall. The feeder will be extended to the new facility via new pathway, ductbank and manholes. The new ductbank will route around the north side of the building between the Garfield Pedestrian Corridor and the new building. The medium voltage service will enter the building on the west side.

The medium voltage feeder will then be routed up the building to the Penthouse on a two-hour rated enclosure. The feeder will terminate at the service entrance medium voltage fusible switch section of the unit substation lineup within the Penthouse Main Electrical Room. The unit substation will include the medium voltage switch, liquid-filled transformer and low-voltage switchboard distribution sections.

Design Criteria

The primary system capacity will be designed to serve the calculated connected load of the facility plus an additional 20% for anticipated future loads.

The design shall meet the requirements of the International Building Code, the Wisconsin Administrative Code (SPS 316) and the National Electrical Code.

Redundancy is provided on the campus medium voltage distribution infrastructure upstream of the Science/Health Science building.

New ductbank sections shall contain spare conduits.

Surge arrestors shall be provided on the primary side of each medium voltage switch.

EMERGENCY/STANDBY POWER SYSTEM

System Description

Emergency power source for the facility will consist of an Emergency Power Supply (EPS) coupled to an emergency Power supply System (EPSS). The EPS will include single diesel operated engine generator set. The emergency power system will be a level 1 system per NFPA 110.

The emergency/standby power source will be derived from a single 1200 KW/ 1500 kVA, 480Y/277V, diesel-powered engine generator set. A sub-base fuel tank will have adequate capacity to operate the generator at full load for at least 12 hours.

The emergency/standby power generator will be located on grade in a weatherproof/soundproof enclosure.

The generator feeders will be routed up the building to the Penthouse in a two-hour rated enclosure. The feeders will terminate at the emergency switchboard within the Penthouse Main Emergency Electrical Room. From the emergency switchboard, feeders will route overhead to the respective automatic transfer switches within the same room.

The emergency/standby power will be distributed to multiple automatic transfer switches segregated by system. Segregated systems are as described on the following page:

System	Associated Loads
Emergency Systems **NEC Article 700** Systems classed as emergency by municipal, state, federal, or other codes, or by any governmental agency having jurisdiction.	Egress Lighting
	Exit Signs
	Fire Alarm Detection and Annunciation Systems
	Elevator Cab Lighting, Communication, and Control Signal Systems
	Fire Pump / Jockey Pump
	Elevators for accessible means of egress (if required)
	Generator Set Accessories
Legally Required Standby Systems **NEC Article 701** Systems classed as legally required standby by municipal, state, federal, or other codes or by any governmental agency having jurisdiction. Specifically loads that when stopped during any interruption of normal electrical supply, could create hazard or hamper rescue or fire-fighting operations.	One Elevator per Elevator Bank (if required by code)
	Public Safety Communication System
	Ventilation systems where essential to maintain life, fire detection and alarm systems
	Mechanical smoke control equipment associated with the atrium exhaust and stair pressurization
	Building automation systems associated with control of required ventilation systems
	Electrically powered horizontal Sliding doors in the means of egress.
	One Elevator per Elevator bank (if required by building code-fire service access or occupant evacuation accessible means of egress.
	Sewage ejectors
	Sump pumps
Optional Standby Systems **NEC Article 702** Systems intended to supply power to public or private facilities or property where life safety does not depend on the performance of the system.	Access Control System
	Telecommunication System
	Building Automation System (BAS) and Accessories
	Select Mechanical Equipment
	Compressed air systems
	Select Chillers and Chilled Water Pumps
	Electrically powered doors
	Uninterruptable Power Systems
	Water Booster Pumps
	Fire Smoke Dampers
	Non-egress lighting (as required per local jurisdiction and codes)
	Select research laboratory receptacles/equipment

A main emergency electrical room will contain emergency/standby switchboards, distribution panels and automatic transfer switches that will be used to distribute emergency/standby power to the loads.

Metering will be provided to indicate various parameters including voltage, amperage, power factor, demand, and energy.

Emergency system power distribution transformers will be provided to transform voltage from 480V to 208Y/120V between the emergency system lighting panels and the emergency system branch circuit panelboards.

Standby power distribution transformers will be provided on each level to transform voltage from 480V to 208Y/120V between the standby equipment panelboards and the standby branch circuit panelboards.

Standby branch circuit panelboards, emergency egress lighting panels, and emergency branch circuit panelboards will be located on each level as required.

Standby branch circuit panelboards serving the lab spaces will be located on each floor, recessed in the Lab Alcoves.

As required by NEC, the feeders and branch circuit wiring to Emergency System loads will be in dedicated raceways.

Design Criteria

The capacity of the generator will be sufficient to serve the facility, with approximately 20% future capacity.

The diesel engine cooling system will include a local radiator.

The generator will be located outside in a skin-tight enclosure.

The emergency/standby switchboard and automatic transfer switches will be in a dedicated emergency electrical room located in the Penthouse.

ELECTRICAL DISTRIBUTION

System Description

Normal Power Distribution

The normal distribution system shall include all electrical distribution equipment from the serving utility service point to the branch distribution outlet device, not including those systems and devices as described in the following subsections.

Secondary electric service at 480Y/277 volts will be provided from a main switchboard to distribution panelboards. Mechanical equipment will be fed from distribution panelboards as required. 208Y/120 volts will be provided from stepdown transformers to distribution panelboards for building user loads. Transformers and distribution panelboards will be located on each floor, in dedicated electrical rooms. Conduit and wire shall be routed vertically through the building to distribute power to transformers, distribution panelboards, lighting and branch circuit loads at each floor. The use of busway for vertical distribution will also be explored to help provide flexibility for future user needs at the lab floors and to limit voltage drop on the electrical distribution system.

Laboratories shall have an individual wall mounted circuit breaker panel located within or near the laboratory module. Panels shall be 150 amp minimum with three phases, four wire plus ground construction.

It is anticipated that laboratory panels will typically be 225 amp rated with 150 amp main breakers unless the load dictates another size be utilized.

A central, uninterruptible power supply (UPS) system to serve user loads and MDF/IDF rooms will be explored for installation under this project. UWEC has expressed interest in pursuing a centralized system.

A central power conditioning system will not be designed for installation under this project.

Electrical metering shall be provided on all major loads in the building including switchboards, automatic transfer switches and the generator. Metering shall include voltage, amperage, power factor and demand values at a minimum.

The use of the stacked electrical rooms will be used to accommodate electrical distribution vertically up the building.

Emergency/Standby Power Distribution

As required by Code, the feeders and branch circuit wiring to emergency loads (lighting, fire alarm, telecommunications, etc.) will be in dedicated raceway. Individual feeders will originate at the emergency distribution panel and will rise through the building to serve the emergency lighting panels. The emergency branch circuit panelboards will be served from the emergency lighting panels via the distribution transformer.

Individual standby equipment feeders will originate at the standby equipment switchboard and will rise through the building to serve the standby equipment distribution transformers. The transformers will serve 208Y/120V distribution panels which will in turn serve the individual standby equipment branch circuit panelboards.

Individual standby motor feeders will originate at the standby motor switchboard and will rise through the building to serve standby motors.

Design Criteria

Building service and distribution equipment sizes will be based on estimated demand plus known or anticipated future loads.

Power distribution equipment will be sized to support 25% spare capacity (amperes) to accommodate functional changes over the life of the building.

Power distribution equipment will be sized to include (2) 225/3 or (2) 200/3 spare circuit breakers plus spaces for 20% future circuit breakers.

Power branch panelboards will be sized to include 10% spare circuit breakers and no single tub shall exceed 42 pole without approval from DFD.

Power factor correction is not anticipated for installation under this project. Anticipated power factor is above 0.9 given historical information on similar building types. Use of variable frequency drives on motor loads has limited the need for power factor correction on most projects.

Although power factor correction is not anticipated for the project, provisions will be provided in the electrical distribution system to allow power factor correction equipment to be installed in the future should a low power factor develop after building occupancy.

Equipment and Components

Equipment	Description of Components
Medium Voltage Fusible Interrupter Switchgear	Metal Enclosed Interrupter Switchgear – ANSI C37.20.3 Copper Bus NEMA 1 Enclosure Current Limiting Type Fuses Fully shielded, dead front, metal-oxide, elbow type surge arrester
Switchboards	UL 891 construction Front access NEMA 1 enclosure Copper Bus Main Circuit Breaker individually mounted Group mounted bolt-on feeder circuit breakers Electronic trip circuit breakers with field-adjustable and field-changeable trip units will be used for all circuit breakers 150 amps and greater and for smaller sizes if special circumstances exist. Circuit breakers 800 amps and greater will be UL listed for applications at 100% of their continuous ampere rating in their intended enclosure
Distribution Panelboards	UL 891 listed, Front access NEMA 1 enclosure switchboards Copper Bus Main Circuit Breaker Group-mount circuit breakers Electronic trip circuit breakers with field-adjustable and field-changeable trip units will be used for all circuit breakers 150 amps and greater and for smaller sizes if special circumstances exist.
Branch Panelboards	UL 67 listed 42 Pole, NEMA 1 enclosure, recessed and/or surface mounted Copper Bus Main Circuit Breaker Molded case with non-adjustable trip units to be used for all circuit breakers 150 amps and smaller All circuit breakers will be bolt-on style Panelboard covers will be hinged trim with door-in-door construction.
Substation Transformers	Liquid Filled, Less Flammable Insulation Copper Winding 55°C/65°C rise with fans and controller Mounted integral with primary switch and secondary distribution system. Medium voltage primary, 480Y/277V secondary

Equipment and Components Continued...

Equipment	Description of Components
Distribution Transformers	480 Delta to 208Y/120 VAC, Wye, three-phase, four-wire; 3-coil, 2-winding type; 150°C rise above 40°C ambient Copper Winding K rated as required Neutral conductors for K-4 and higher units to be increased in size from the transformer to the first distribution panel and will be able to support 200% of the normal phase current. Transformers will incorporate vibration isolation pads in their construction located between the core/coil assembly and the transformer case
Automatic Transfer Switches	Three pole or Four pole Copper Bus kAIC rating as shown on drawings Emergency: Open Transition Optional standby: Closed Transition Transfer Controls: Solid State microprocessor Isolation Bypass: None 3 cycle for use with molded case breakers short circuit rating

GROUNDING SYSTEM

System Description

A complete low-impedance grounding electrode system will be provided for this facility. The grounding electrode system will include the main water service line, structural steel, Ufer ground, and ground ring around the perimeter of the building. The equipment grounding system will extend from the building service entrance equipment to the branch circuit. All grounding system connections will be made using exothermic welds or irreversible compression connections.

Bonding jumpers will be provided as required across pipe connections to water meters, dielectric couplings in a metallic cold water system, and across expansion/deflection couplings in conduit and piping systems.

All feeders and branch circuits will be provided with an equipment ground conductor. Under no circumstances will the raceway system be used as an equipment grounding conductor.

Design Criteria

The grounding electrode system will be designed in accordance with NEC article 250.

System resistance to ground will be 5.0 ohms or less.

All conductors will be installed in steel conduit unless installed below grade or in concrete.

Equipment and Components

The reference ground for the equipment grounding system will be established from a structural ground grid as follows:

A medium voltage grounding system will be installed in the main electrical room. A ¼" x 2" ground bus will be installed around perimeter of room containing the medium voltage switchgear and unit substation. A separate No. 4/0 AWG copper ground wire will be installed from perimeter ground bus to: XO of each transformer, each high voltage switch with ground bus, secondary service equipment ground bus, transformer HV grounded terminals (if applicable).

A No. 4/0 AWG bare copper ground wire will be installed at 30" below grade around the entire perimeter of the building. 3/4" x 10 ft driven copper ground rods (test wells) will be installed and connected to this ground loop at not-greater-than 200' intervals with a No. 4/0 AWG bare copper conductor. Steel columns in exterior walls will also be connected to this ground loop with 4/0 AWG bare copper at intervals not to exceed 60'. Interior steel columns will be connected to the exterior ground loop on each side of the building at intervals not to exceed 200' with a No. 4/0 AWG bare copper conductor.

A "Ufer" ground will be provided in the footing of the building consisting of 50' of 500 kcmil wire located 3" from the bottom of the footing.

Wall-mounted copper ground bus will be located in the main electrical room, floor electrical rooms, and voice/data rooms. The main electrical room ground bus will be connected to exterior ground loop and "Ufer" ground.

The telecommunications bonding and grounding system will be designed according to the requirements defined in the TIA-607-D standard. This will include primary bonding busbars (PBB) and secondary bonding busbars (SBC) in the communications main equipment room and floor telecom rooms. Final configurations and sizing for the telecommunications bonding conductor (TBC) and telecommunications bonding backbone (TBB) conductors will occur after room locations are defined on the floor plans.

Distribution

A separate, insulated 4/0 AWG ground wire will be provided from the main electrical room ground bus to each floor's electrical room ground buses, underground incoming water service line ahead of meter, and underground gas line at the building entrance.

The main service entrance neutral will be bonded to the system ground bar within the switchboard by a removable bus bar link.

A code-sized, unbroken bond leader will be connecting the electrical room ground bar to the XO terminal of the local transformers.

A No. 4/0 AWG, bare copper, grounding electrode conductor will be extended to all voice/data rooms, so that those systems can be properly bonded.

A separate ground wire will be provided for all circuits.

LIGHTNING PROTECTION SYSTEM

System Description

A lightning protection system will be provided to protect structure and associated appurtenances as recommended in the Lightning Risk Assessment which will consist of a system of conductance designed to safely divert the energy of a lightning strike to the earth while minimizing damage to the facility.

Design Criteria

System will comply with NFPA 780 - Standard for the Installation of Lightning Protection Systems. The installer will be certified with the Lightning Protection Institute and the installing Contractor will provide a UL Master Label for the completed system.

Equipment and Components

Materials will be rated Class II for structure heights above 75'.

Air terminals will be solid copper with a tapered point, 10" minimum height, and have a mounting base suitable for the location.

Conductors will be bare-stranded copper, except aluminum will be used where installation is in contact with aluminum surfaces.

Ground rods will be copper-clad steel, 3/4" diameter by 10' long, with a bronze mechanical-type conductor clamp.

Distribution

The system layout and design will encompass all exterior surfaces of the facilities under a complete zone of protection as defined by NFPA 780. Air terminal spacing will not exceed 20 ft, except spacing up to 50' is allowed for non-perimeter areas of flat roofs. Locations will comply with NFPA 780 and will generally follow the building roof ridges and/or perimeters.

One (1) down conductor will be provided for every 250 ft of building perimeter, with a minimum of two (2) conductors. Conductors will be configured to provide a two-way path to earth. Metal bodies will be bonded to the conductor system in accordance with NFPA 780.

A ground rod will be connected to each down conductor. The electric power service grounding system will be bonded to the Lightning Protection System.

LIGHTING SYSTEMS

System Description

A complete lighting system for all indoor and outdoor illumination will be provided. The indoor lighting system will consist primarily of energy-efficient LED lighting fixtures. Incandescent and fluorescent lighting will not be used. The outdoor lighting system will be designed to meet the International Dark-Sky Association's standards and consist of LED fixtures which are designed to be dark sky compliant.

In general, indoor lighting controls will consist of low-voltage switches controlled by room occupancy sensors. In general,

lighting controls will be kept simple, inexpensive and easy to maintain. Timer switches will be used in janitor's closets and similar storage spaces. Mechanical and electrical rooms will include some lighting that is not automatically controlled for safety purposes. Outdoor lighting controls will utilize photocells and time switches. Occupancy sensors will be used as much as practical.

Photocell control will also be provided within 15-20' of windows to utilize daylighting opportunities in accordance with the DFD Daylighting standards.

Emergency/night lighting will be provided by unswitched branch circuits where security is of a concern. Emergency lighting will be fed from an emergency lighting panel. UL924 listed transfer devices shall be utilized to allow switching of emergency/night lighting luminaires.

Exit signs and emergency egress lighting will be provided throughout the facility to illuminate egress corridors, stairwells, lobbies, etc. Exit and egress lighting circuits will originate from emergency system branch panels.

Illuminance Levels Design Criteria

Space	Average Maintained Footcandles
Office	20-40
Classroom	30-50
Lecture Hall	30-50
Laboratory, Support, Technical Area	50-60
Laboratory Bench and Table Top	50-60 (plus task lighting)
Animal holding rooms	30/100(bi-level)
Conference	50-60
Corridor	5-20
Lobby	10-25
Toilets	5-20
Storage	10-30
Task	40
Exterior Lighting	1-2

Space	Minimum Vertical Footcandles	Minimum Horizontal Footcandles
Technology Distribution Rooms	20	50

Equipment and Components

Space	Fixture Type
Laboratory and Laboratory Support	Direct/indirect LED fixtures or recessed LED troffer.
Animal Holding Rooms	1' x 4', recessed LED troffer with acrylic lens, sealed and gasketed, moisture-proof; 2 drivers, (1) for red light and (1) for white light.
Office	2' x 4', LED troffer or suspended indirect LED fixtures.
Common Area	Premium quality architectural LED lighting
Circulation	1' x 4', LED troffer or wall-mounted LED sconces
Building Support	4', surface- or pendant-mounted, open industrial LED fixture.
Cold Rooms	Rated for intended applications
Wash Rooms and Wet Areas	UL Listed for a wet location

EXIT signs will be State Fire Marshal approved LED type, located in all paths of egress Exit signs in public spaces will be edge-lit mirrored type with RED letters.

Lamps and Ballasts

LED lamps to be LM-79 and LM-80 tested, have two step MacAdam ellipse tolerance, and have a minimum CRI of 80 to be supplied with applicable drivers or power supplies.

Lighting Control

Photocells and occupancy sensors will be utilized in select spaces to minimize energy consumption. Occupancy sensors will be passive infrared or a combination infrared/ultrasonic type.

Dimmers will be provided in conference rooms, classrooms, labs and other occupied spaces as required. All corridor lighting, except emergency (Article 700) branch lighting, will be controlled by occupancy sensors.

Dual-level lighting will be provided in the animal holding rooms. Low-level lighting will be controlled by the programmable lighting control system. High-level lighting will be controlled by a one-hour timer in series with the low- level lighting. The programmable lighting control can be bypassed by manual room light switches. This option will be selectable at the lighting control

software. Animal holding rooms will each be equipped with a light-sensing device to indicate remotely the status of the lights in a specific room.

Distribution

In general, lighting will be 277V.

All lighting circuit wiring will be in conduit and routed concealed within walls, partitions, or ceiling spaces. Surface-mounted conduit will be minimized and used only in non-finished spaces.

Animal holding room lighting fixtures will be served from the standby power system.

The ampacity of lighting circuits will be sized for 25% future growth plus 125% continuous loading factor per the National Electric Code.

FIRE ALARM SYSTEM

System Description

The fire alarm system will be a stand-alone, fully addressable system as manufactured by Notifier, to match campus standard. The fire alarm system will be comprised of smoke detectors, heat detectors, duct detectors, manual pull stations, and audio/visual signaling devices.

Design Criteria

The fire alarm system will comply with requirements of NFPA 72 for a protected premises signaling system except as modified and supplemented by this document.

A main fire alarm control panel will be located in the Fire Command Center located near the fire department entrance located on Level 1.

A fire alarm annunciator panel will be located at the main building entrance, as directed by the Fire Marshal.

Audio/visual devices will be installed in all areas of the building in accordance with the NFPA and the ADA Guidelines.

Smoke detectors shall be installed as required by the National Fire Protection Association, the International Building Code and the International Fire Code. Smoke detectors will be installed in, but not limited to, the following locations: air handling units, elevator lobbies, elevator control/machine rooms, and electrical equipment rooms. Smoke detectors will be located within 15' of all fire alarm control equipment panels.

Heat detectors will be installed in areas that are not feasible for smoke detectors, such as laboratories.

Manual Pull Stations will be installed adjacent to all exit doors from each floor and from the building and in each elevator lobby.

The fire alarm system will be linked with the campus central system via the Building Automation System to allow monitoring by the UW-Eau Claire Campus Police.

The fire alarm system will be able to communicate with the applicable central receiving station.

Equipment and Material

The fire alarm system will be an electronically multiplexed voice communication system.

Remote transponder panels will be used to provide supervised amplifiers and signal circuits for audio/visual devices and magnetic door holders.

The system will utilize individual, addressable photoelectric smoke detectors; heat detectors; addressable manual pull stations; and addressable monitor and control modules. The system will monitor all sprinkler supervisory and water flow switches and will interface with elevators, HVAC smoke control, and smoke fire dampers.

Distribution

All initiating and signaling devices will operate at 24VDC and will be installed in accordance with manufacturer's specifications.

All wiring will be installed in conduit. Minimum conduit size will be 1/2".

CLOCK SYSTEM

System Description

A complete second impulse type digital clock system synchronized and traceable to NIST atomic clock in Fort Collins, Colorado will be designed for the project. The system shall provide time correction signaling to all remote clocks via wireless communication.

Design Criteria

The clock system shall receive radio frequency or GPS impulses via a roof-mounted antenna for time corrections.

Master control clock shall store one to four independent program schedules.

Equipment and Materials

The manufacturer to be provided will be Simplex, Edwards or Franklin Time Systems.

All clocks shall be microprocessor based with high output, wide angle, 4-digit red LED display.

A master control panel shall be located at the main telecommunications equipment room or the building engineer's office.

Clocks will be semi flush or surface, digital type.

Distribution

Clocks shall be located in corridors, lecture/auditorium/ discussion/seminar spaces, teaching prep room, laboratories and all general public areas.

All clocks shall be supplied from 120V power supplies.

Clocks will receive wireless correction signals from master system.

ELECTRICAL SYSTEM STANDARDS

Feeder and Branch Circuits

Secondary distribution and branch circuit system design will be based on a maximum of 5 % voltage drop from the transformer to the utilization equipment

Neutral conductors derived from harmonic mitigating transformers will be capable of carrying 200 % of normal phase current from transformer to first distribution panelboard. Neutral conductors from distribution panelboard to downstream panelboard or device will not be increased in size

Feeder and branch circuit sizes will be based on the load supplied and adjusted for voltage drop.

Feeder and branch circuit ampacity will not be smaller than the upstream overcurrent device or downstream equipment bus.

Circuit Voltage Length	Wire Size
480Y/277 volt circuits over 150' in length	Increase wire size one size for each 150' of length
208Y/120 volt circuits over 60' in length	Increase wire size one size for each 60' of length

Receptacles

Refer to the Laboratory Functional and Technical Criteria, in other sections of this narrative for requirements in these programmed spaces.

Refer to the Vivarium Functional and Technical Criteria in other sections of this narrative for requirements in these programmed spaces.

Receptacles in offices, general support rooms and similar locations, (depending upon room layout) will be provided with a minimum of (4) outlets total or (1) outlet on each wall. Enclosed offices will be provided with a double duplex receptacle at desk location.

Conference rooms and common areas will be provided with at least (1) duplex receptacle per wall. Typically, receptacles to be spaced on 12' centers.

Building Support (Equipment rooms, storage rooms) will be provided with (1) duplex receptacle per wall or (1) per every 150 square feet, whichever is greater

Duplex receptacles in office areas, lounges, lobbies, etc., shall be circuited with an average of (6) duplex receptacle's per 20A, single pole circuit.

Receptacles designated to serve desk top computer loads shall be circuited with an average of (4) duplex receptacle's per 20A, single pole circuit.

Each workstation to receive minimum of 1 receptacle that will be circuited with maximum of (4) receptacle's per 20A, single pole circuit.

Receptacles along laboratory benches shall be circuited with an average of (4) duplex receptacles per 20A, single pole circuit.

Equipment such as refrigerators or freezers shall be connected to dedicated circuits.

Each fume hood to be provided with a minimum of (3) 20A single pole circuits.

Vivarium, spaces will be provided with weatherproof covers and cast metal back boxes that are sealed to prevent vermin infestation. Materials shall be stainless steel to be compatible with cleaning agents used in the space.

Ground fault protection will be provided for outlets within 6' of a sink edge and other wet locations. Electrical outlets will be individually ground fault interrupted (GFCI) protected (not at the circuit breaker or first outlet on the circuit. All electric water coolers shall be provided with ground fault protection at the branch circuit breaker.

One duplex GFCI protected duplex outlet will be provided in corridors on 40' centers for cleaning equipment.

Ceiling service panels will be installed in the open laboratories, be inset into ceiling grid and will have twist-lock outlets for 120V and 208V service as required to support the laboratory. Each circuit will have a dedicated neutral. Shared neutrals will not be allowed. 208V outlets will not be used to provided two 120V circuits to the lab bench.

Overcurrent Protective Device Coordination

Overcurrent protective devices supporting Emergency NEC Article 700 (typically exit and egress lighting), Legally Required NEC Article 701, and NEC Article 695 (fire pump) systems will be selectively coordinated from source of supply (normal and emergency) through final device. Selectivity will be through the entire instantaneous region including ground fault.

Overcurrent protective devices supporting normal power systems and NEC 702 systems will be selectively coordinated with supply side overcurrent protection to the greatest extent possible given the material capabilities of breaker types selected with the exception of the instantaneous region devices in keeping with industry practice.

Overcurrent protective device will be selectively coordinated with supply side overcurrent protective devices as follows:

System	Seconds
Emergency System (NEC 700)	0.01
Legally Required System (NEC 701)	0.01
Optional Standby System (NEC 702)	0.10
Fire Pump	0.01
Elevators	0.01
Normal Power System	0.10

Arc Flash

The electrical distribution system will be configured to allow equipment to be worked on energized using reasonable PPE (category 3 or less). Arc flash calculations for Arc Flash Incident Energy (AFIE) levels and flash protection boundary distances will be by the contractor based on the actual equipment supplied using an independent Registered Profession Engineer in the State of Wisconsin using SKM System Analysis tools.

Fault Current Ratings

The preliminary short circuit withstand and interrupting ratings will be provided for electrical distribution equipment, feeder conductors, etc. based upon the actual available fault current and system motor contribution.

The final available fault current will be determined during design of the project and will be verified by 3rd party calculations provided in contractor submittals.

Equipment will have ratings not less than the calculated symmetrical short circuit value at each point in the distribution system.

Equipment will be fully rated for the calculated available short circuit. Series ratings will not be allowed.

Short Circuit Ratings	
208Y/120V	480Y/277V
10 kAIC where fed via 75kVA and smaller transformers	14 kAIC where fed via 300 kVA and smaller transformers
22 KAIC where fed via 112.5 kVA transformer	30 kAIC where fed via 500 kVA transformer
22 KAIC where fed via 150 kVA transformer	35 kAIC where fed via 750 kVA transformer
42 KAIC where fed via 225 kVA transformer	42 kAIC where fed via 1000 kVA transformer
42 KAIC where fed via 300 kVA transformer	65 kAIC where fed via 1500 kVA transformer
65 KAIC where fed via 500 kVA transformer	100 kAIC where fed via 2000 kVA transformer
-	100 kAIC where fed via 2500 kVA transformer

Conduit and Raceway

Conduit Types and Application	
Conduit Type	Application
Electrical Metallic Tubing (EMT)	Low voltage feeders and branch circuit wiring where installed above 6'-6" AFF, when exposed in unfinished spaces.
Galvanized Rigid Steel (GRS)	Low voltage feeders and branch circuit wiring where exposed below 6'-6" AFF. Exterior locations, Under slab, Areas subject to physical abuse
Intermediate Metal Conduit (IMC)	Low voltage feeders and branch circuit wiring where exposed below 6'-6" AFF.
Schedule 40 PVC	Concrete encased ductbanks and direct buried under slab

Conduit will be run concealed, unless installed in mechanical, electrical, telecom, interstitial areas and other similar unfinished spaces.

Minimum conduit size for power circuits will be1/2".

Conduits will be independently supported.

All conduit stub-ups from below floor or in floor (where specifically allowed) will be galvanized rigid steel.

Surface mounted conduits below 6'-6" will be rigid galvanized steel with threaded fittings and boxes will be cast steel.

EMT fittings will be set screw type with steel body.

Conduits may be installed below, but not within, floor slabs on grade.

Conduits and boxes will be installed a minimum of 1' and a maximum of 3' above ceilings. Installation outside of this zone will not be allowed. Special permission may be obtained to run ceiling conduits outside of this zone providing that pull and junction boxes are unobstructed and accessible from floor using a standard 8 foot ladder. Also, light fixtures, smoke detectors, junction and pull boxes and other equipment that is installed on or directly above the ceiling will be serviced and maintained without damage to ceiling tiles and other building elements.

Raceways for 2-hour rated systems shall be installed in either: UL listed assemblies for 2 hour fire rated applications or in 2-hour rated enclosures.

For lighting conduit homeruns, a j-box will be located above light fixture in an accessible location to allow for future expansion.

No home run will terminate in a wall mounted device box. A separate J-box will be provided above device box above ceiling in an accessible location.

For Vivarium facilities, all devices boxes shall be cast type with either RGS or IMC (when recessed), or EMT (only where recessed with compression fittings). Any exposed conduit will be threaded rigid stainless steel on minimum 3/4" standoffs.

Wire and Cable

Cable Types		
Voltage Class	Insulation	Notes
15kV	EPR, 105 C	133% rated, extruded semiconductor layer with copper tape shield
600 V	THHN/THWN-2 or XHHW-2	Conductors #10 and smaller will be solid copper. Conductors larger than #10 will be stranded copper

All feeder conductors to be 98% conductivity copper.

All branch wiring conductors will be 98% conductivity copper.

Minimum wire size #12 AWG, for all areas.

Multi-wire branch circuits will be provided with dedicated neutral conductors for each phase, common neutral circuits will not be permitted.

Feeder conductors will be terminated using compression lugs. Mechanical lugs will not be used for feeders. Branch circuit conductors will typically be terminated using mechanical lugs.

Conductor insulation color code will be as follows:

Conductor Color Code	
208Y/120V	480Y/277V
Phase A – Black	Phase A – Brown
Phase B – Red	Phase B – Orange
Phase C – Blue	Phase C – Yellow
Neutral – White	Neutral – Gray
Ground – Green	Ground – Green

Wiring Devices

Wiring devices will be specification grade, complete with all accessories.

Isolated ground receptacles will be used only when necessary. If used, isolated grounds will be in addition to equipment ground. Panelboard will have an isolated ground bus that will be connected back to applicable derived system or service.

Receptacle and Switch Color Code	
Normal Power	Selected by Architect
Emergency Power	Red

Receptacles, switches, etc., will have faceplates with labeling indicating system panel and circuit identification.

Motors and Motor Control

Stand-alone motor disconnects (separate from starter or VFD) will be fused and will be installed at each motor.

Motors smaller than 60 HP that are not provided with a variable frequency drive (VFD) will be provided with an across the line combination magnetic motor starter. Motors 60 HP and larger that are not provided with a variable frequency drive (VFD) will be provided with reduced voltage motor starter. Refer to other sections of the narrative for VFD requirements.

Combination motor starters will use circuit breakers or motor circuit protectors in lieu of fuses to reduce the possibility of single phasing. For mechanical and HVAC equipment that are not provided with a VFD, individual combination motor starters will be located within sight of the motor.

Selected motors will have variable frequency drives (VFDs) as described in other sections of this narrative.

VFD drive specifications will require that the VFDs for the project be provided such that the Special Category harmonic limits recommended in IEEE 519-2014 be maintained. The supplier of the drive will be required to provide any filtering per the VFD specification based on a study performed by the design engineer during design phase.

Equipment that is provided with more than one motor such as duplex or triplex sump pumps, air compressors, vacuum pumps, etc. will be connected to redundant power supplies and controls such that one motor and associated power source can be taken out of service for maintenance without disabling the complete system.

Grounding and Bonding

A separate, insulated equipment grounding conductor, sized per the National Electrical Code, will be provided within each raceway and cable tray, with each end terminated on a suitable lug, bus, enclosure, or bushing.

A grounding riser with ground box will be located in each electrical closet.

Surge Protection

Surge Protective Devices (SPD) will be used as design dictates. A single SPD device will be installed on the load side of each main service disconnect, the generator switchboard, all Article 700 panelboards and at the first distribution panel on the load side to each automatic transfer switch. Second-tier SPD devices at branch panelboards and other locations will be incorporated as required but is not anticipated at this time.

EMF and Harmonics

Electrical vaults and major electrical equipment rooms containing transformers larger than 300 kVA to not be located adjacent to occupied workstations or lab/lab support spaces with sensitive equipment, unless EMF shielding or metal conduit is provided.

The power service will be required to meet the requirements IEEE Standard 519 to insure proper service. Total harmonic distortion will be limited to the allowable harmonics as detailed in IEEE 519-2014 tables at the point of common coupling. The point of common coupling is being defined as the building medium voltage switchgear where building receives service from electricity provider.

Electrical Rooms

Electrical equipment rooms will be positioned to facilitate unobstructed initial installation of large equipment, and unobstructed removal and replacement of defective equipment.

Adequate space will be provided for maintenance of electrical equipment and equipment removal.

Pipes and other equipment foreign to the electrical equipment will not be located in, enter, or pass through such spaces or rooms.

Panelboards will be grouped, surface-mounted, in dedicated ventilated rooms. Electrical rooms will be stacked vertical whenever practicable.

Penthouses and mechanical rooms will be utilized for electrical equipment and panelboard placement where applicable for optimization of space.

Panelboards serving lighting and appliance circuits will be located on the same level as the circuits they serve and will be served from source of supply with a dedicated feeder.

Feed through, subfed and double section panelboards will not be used unless required to comply with selective coordination requirements or where needed for circuit capacity if panels larger than 42 pole are not approved for use by DFD.

Prohibited Materials and Construction Practices

The entire Emergency/Standby power distribution system will consist of conduit and wire. Busway will not be used in any portion of this system.

Use of wood strips and wood screws to support lighting fixtures.

Extra-flexible non-labeled conduit.

Conduit installation in concrete slabs.

Use of wire ties to support conduit.

Suspension systems for conduits, fixtures, etc. connected to other utility equipment is prohibited. Any suspension system with multiple levels must be hung from trapeze suspension systems.

Use of Incompatible Materials: Aluminum fittings and boxes will not be used with steel conduit. All materials in a raceway system will be compatible.

Direct burial electrical cable.

Power Distribution Acceptance Testing

An independent testing firm will be employed to assure all electrical equipment, both contractor and Owner supplied, is operational and within industry and manufacturer's tolerances and is installed in accordance with design specifications.

Testing firm will be a corporately and financially independent testing organization that can function as an unbiased testing authority, professionally independent of the manufacturer, supplier, and installers of equipment or system evaluated by the testing firm. The testing firm's on-site technical person will be currently certified by the International Electrical Testing Association in electrical power distribution system testing. Items to be tested and inspected are as follows:

Acceptance Tests	
600V Conductors and Cables	Medium Voltage Surge Arresters
Medium Voltage Conductors and Cables	Automatic Transfer Switches
Electrical Metering	Motor Control
Engine Generators	Metal Enclosed Busway
Dry Type Transformers (Small)	Ground Fault Protection Systems
Dry Type Transformers (Large)	Grounding Systems
Switchboards	Instrument Transformers
Medium Voltage Metal Enclosed Air Switches	Thermographic Survey
Low-Voltage Power Circuit Breakers	Lighting and Appliance Panelboards

Acceptance Tests Continued...	
Low-Voltage Insulated-Case/Molded-Case Circuit Breakers	Static and Flywheel Uninterruptable Power Supply Systems
Low-Voltage Disconnect Switches	Distribution Panelboards
Enclosed Circuit Breakers	Surge Protective Devices
Lightning Protection System	

ELECTRICAL EQUIPMENT RELIABILITY MATRIX

System	Component	Component Redundancy	Description
Campus Utility Service	Utility Service – Site Utility switch to unit substation	N+1 on site from Utility switches	Feeder sized to handle 100% of building load
Normal Source	Service Entrance Switchboard	N Switchboard	Single ended Switchboard
Alternate Source	Generator	N	One generator sized to handle 100% of generator power load
Emergency Switchboard	Emergency Switchboard	N	Single Ended
Transfer Switches	Transfer Switches	N	One ATS per system
Central UPS System	UPS	N	Serves telecommunication equipment and limited Owner requested equipment only

1. Redundancy 2N refers to system requiring N operating components with N operating components idle to provide 100% component redundancy.
2. Redundancy N+1 refers to system requiring N operating components to provide 100% of load with one additional component provided.

6.8 COMMUNICATIONS

INTRODUCTION

Purpose

This Basis of Design (BOD) describes the magnitude, functions and requirements of the low voltage Communications systems in the new Science/Health Science Building on the UW-Eau Claire campus. It presents a description of the individual systems' proposed design and function and represents decisions and information available to the design team through the date this document was delivered.

Approach

Identify the Communications systems included in the project.

Coordinate the intrabuilding cabling plan and Communications support spaces with UW-Eau Claire, DFD and the Architectural team.

Coordinate the interbuilding cabling plan with UW-Eau Claire and DFD.

Coordinate Communications systems' Mechanical, Electrical, Structural and Architectural needs.

Coordinate development of Communications Design Documents with entire Project team.

Scope of Work

The Communications systems in this Project will include design and implementation information for the building structured cabling system. This system will support voice and data applications using equipment supplied by the Owner.

Definitions	
Backbone Cabling	Cables connecting EF to MER and MER to TRs
Cable	Assembly of one or more conductors or optical fibers within enveloping sheath, constructed to permit the use of conductors singly or in groups.
Cable Link	Includes EO, horizontal cable and termination hardware in consolidation points and MER or TR.
Cable Channel	Same as Cable Link, plus patch cords at EO and in MER or TR.
Consolidation Point	Interconnection point within the horizontal cabling using TIA-568 compliant connecting hardware rated for at least 200 cycles of reconnection.
Cross-Connect	Group of connection points, wall or rack mounted, used to mechanically terminate and administer building wiring.
EF	Entrance Facility - Communications services are brought into the building in this room.
EO	Equipment Outlet - A device assembly located in work area on which station cabling terminates and which can receive modular connectors.
Faceplate	Component at EO that holds the jacks.
Horizontal Cabling	Cables connecting EOs to MER, TRs and consolidation points.
Intrabuilding	Within a single building.
Interbuilding	Between two or more buildings.
IT	Information Technology
Jack	Modular connector located in SIO.
LAN	Local Area Network - Network or networks typically covering a small geographic area. Typically includes only Client-owned cabling and equipment.
MER	Main Equipment Room - Building communications services are distributed to IDFs on all levels from this room.
Outlet	See EO
Station Cabling	See Horizontal Cabling.

Definitions	
Telecommunications	Any transmission, emission, or reception of signs, signals, writings, images, sounds, or information of any nature by wire, radio, visual, optical, or other electromagnetic systems.
TR	Telecom Room - Used to distribute horizontal cabling to equipment outlets and to house communications equipment.
UTP	Unshielded Twisted Pair - Balanced, 4-pair cable used for copper station cabling and multi-pair copper backbone cables.
WAP	Wireless Access Point - Device that allows wireless devices to connect to a wired network.

Table 3 - Definitions

STRUCTURED CABLING

Equipment Outlet Quantities

The following outlet quantities indicate the general outlet densities expected for the project. Specific requirements to satisfy user needs will be implemented as space programming is completed.

The values in this table show the number of faceplates in each room and the number of jacks at each faceplate. For example, an office would have a total of 2 faceplates containing a total of 4 jacks:

Room or Space Function	No. of Faceplates	Copper Jacks per Faceplate
Typical Office	2	2
Conference Room	1 (in floor box)	2
	2 (in walls)	2
Modular Furniture	1	1
Lab Support Rooms	As programmed	2
Research Labs – Bench top (per 8 lf of bench)	As Programmed	2
Teaching Labs – Bench top (per 8 lf of bench)	As Programmed	2
Wireless access points	N/A	2
Security Surveillance Cameras	N/A	1

Table 4 - Outlet Quantities

EQUIPMENT SIZING CRITERIA

Pathways

Cable pathways will be sized typical pathway sizing is as follows:

- Outdoor Interbuilding - 100% spare capacity over initially installed cabling.
- Indoor Intrabuilding - Fill to 50% of maximum allowed by Code.
- Station - 1” minimum conduit size.
- Pathways will be installed to connect EF, MER and TRs in an efficient manner.

Termination and Mounting Space

Equipment racks and wall fields will be sized with a minimum of 30% spare capacity.

Network Electronics

Network electronics will be sized, furnished and installed by the Owner.

SYSTEM DESCRIPTION

The structured cabling system will be provided as a certified cabling system. The manufacturer or manufacturers of the cable and termination components will qualify and warranty the performance of the entire system.

Support Rooms

All Communications support rooms have several common requirements. Each room will be provided with card access security control, emergency and/or UPS power and continuous HVAC cooling.

The support rooms should be located central to the areas that they serve and have clear access to cable pathways coming in and out of the rooms. Pedestrian and equipment access should be through a door located off a building corridor and should not require access through any other locked room. Door width will be at least three feet.

Suspended ceilings should not typically be provided, however

some means of maintaining the environmental parameters of the rooms must be implemented. If a suspended ceiling is required to maintain environmental containment, the ceiling should be installed high enough to allow all pathways and room services to come into the rooms below the ceiling.

Floors, walls and ceilings in the support rooms will be treated to minimize dust and the potential for static electricity. At least two walls will be covered with fire treated plywood (3/4 inch thick, 8 feet high, A-C grade).

Entrance Facility (EF)

Interbuilding services will be brought into the facility at the EF and the building demarcation will be located in this room. This room will not house powered network equipment and will serve only as a location to transition from outside plant to inside plant cable types. Interbuilding copper cabling will terminate on protector panels located in the EF.

The EF requires a minimum of 80 square feet (8 feet by 10 feet) of space. The current plan is to combine the EF into the MER. Total space required for both functions is defined below in the MER description.

Main Equipment Room (MER)

The building MER provides a protected environment for terminating all backbone cables and will be located along the west side of level 1. This room is where the building Communications systems connect to the campus Communications systems and distribute to the rest of the building.

The MER requires a minimum of 300 square feet (20 feet by 15 feet) of space. The room will house backbone cable terminations and data network equipment. The MER could also serve as a TR if located on a floor with program space. If the TR function is included, the MER will also house horizontal cable terminations.

Telecom Room (TR)

Each floor will have two TRs, and each TR will connect to the building MER with intrabuilding backbone cabling. The TRs provide a protected environment for terminating backbone cabling and horizontal cabling on each floor and Communications services to the floor will be provided from the TRs. Network electronics will be housed in the TRs.

Each IDF requires a minimum of 120 square feet (10 feet by 12 feet) of space.

Cray Cluster Computer

The building program includes 300 square feet to accommodate the Cray Cluster Computer currently located in the Chippewa Valley Technical College Gateway Campus regional data center.

Specific MEP support systems required for this equipment will be developed as the project design progresses.

BACKBONE CABLING

Backbone cable summary table

Backbone Cable Application	Cable Type	Cable Quantity
Interbuilding Data (i.e. Ethernet networking)	SM Fiber Optic	72 Strands
Intrabuilding Data (i.e. Ethernet networking)	SM Fiber Optic	24 Strands
Interbuilding Analog POTS Voice	Copper UTP	50-pairs
Security (i.e. CCTV) Cameras	Fiber Optic	Included in Data cabling

Table 5 - Backbone Cabling

The existing campus duct bank and manhole system will extend from an existing signal manhole in the Garfield Pedestrian Corridor onto the west side of the project site and into the building Entrance Facility to provide connection to the Campus Communications infrastructure. All Communications services for the building will enter through the duct bank and manhole system.

Interbuilding Data Backbone Cabling and Connection Hardware

The data system will use fiber optic cabling from the existing equipment room on the 2nd floor of Centennial Hall to bring data service into the building at the Entrance Facility. The data backbone will be sized shown in the “Backbone Cabling” table above.

All fiber strands will terminate on duplex-LC connectors in rack mounted patch panels in the Entrance Facility and Centennial Hall.

Intrabuilding Data Backbone Cabling and Connection Hardware

The data system will use fiber optic cabling to distribute data service from the MER to the TRs. The data backbone from the MER to each TR will be sized as shown in the "Backbone Cabling" table above.

All fiber strands will terminate on duplex-LC connectors in rack mounted patch panels in the MER and TRs.

Interbuilding Voice Backbone Cabling and Connection Hardware

Primary voice service to the building will use the campus network connection to extend the existing Voice over IP (VoIP) phone system.

The voice system will also use ARMM-type copper cabling to bring analog POTS voice service from existing voice services in Schofield Hall into the building at the Entrance Facility. The voice backbone will be sized as shown in the "Backbone Cabling" table above.

All copper cable pairs will terminate on wall-mounted protector panels and be cross-connected to wall-mounted system terminal blocks.

Intrabuilding Voice Backbone Cabling and Connection Hardware

The voice system will use ARMM-type copper cabling to distribute analog voice service from the MER to the TRs. The voice backbone will typically be sized at 25-pairs per TR.

All cable pairs will terminate on wall-mounted 110-blocks in the MER and rack-mounted patch panels in the TRs.

STATION CABLING

Horizontal Cable Application	Cable Type	Cable Quality
Data (i.e. computer networking) and Voice	Copper UTP	6
Wireless Data (i.e. WAP connections)	Copper UTP	6A
Security (i.e. CCTV) Cameras	Copper UTP	6
Audio-Visual HDBaseT	Copper UTP	6

Table 6 - Station Cabling Summary

Horizontal Cabling and Connecting Hardware

There is no planned differentiation between voice and data applications on the horizontal cabling system. Voice services will primarily be provided via VoIP using the building Ethernet network.

Each equipment outlet jack will connect to the nearest TR with a 4-pair UTP, Category 6A cable. All four pairs will terminate at the outlet and in the TR.

Category 6A rated 8P8C type jacks will be used at the equipment outlet locations and rack mounted patch panels will be used in the TRs.

Cables from EOs will run in conduit, J-hooks and cable trays to the TRs.

Fiber Optic Horizontal Cabling and Connecting Hardware

Horizontal fiber optic cabling is not planned for this project.

Patch Cables

Patch cables will be provided by the Owner.

SUPPORT EQUIPMENT

Innerduct

Backbone fiber optic cabling will not be installed in flexible, nonmetallic innerduct.

Equipment Racks

All copper and fiber optic patch panels will be installed in 7 foot high, standard TIA 19" equipment racks. Patch panels will be angled-type to facilitate improved patch cord routing.

High-density horizontal and vertical cable management will be provided in all equipment racks.

Cable Raceways

The cable raceway system will consist of a combination of cable tray, J-hooks, conduit, surface raceway, and cable runway. The cable runway will only be used in the support rooms.

Cable pathways from the SIOs to the IDFs will use conduit above

inaccessible ceilings, cable tray above accessible ceilings and major cable runs and J-hooks for aggregating small quantities of cables in common areas.

Grounding System

The Communications grounding system will provide equipment protection in all support rooms, and will be designed based on DFD guidelines and the TIA-607 standard. Ground bars and conductors will be provided to minimize the potential difference between the grounding system and the electrical sources powering the Communications equipment. Refer to Electrical narrative section for additional information.

MEP REQUIREMENTS

No piping or ductwork will pass over or through any Communications support room, unless they are used to provide services to the support rooms. Piping and ductwork used to provide services to these rooms will be coordinated with the anticipated Communications equipment layout within the rooms.

Electrical Requirements

Communications support rooms will be connected to the building standby power source. Rack-mounted UPS equipment will be used to maintain system operation while the standby power source comes on-line.

Electrical Circuit Type	Source	Circuit Quantity	Device Type
120V, 20A	Normal	(2) per equipment rack	L5-20R
208V, 20A, single-phase	Standby	(1) per equipment rack	L6-20R

Table 7 – MER and TR Electrical Service

The intent of the electrical service described above is to accommodate rack-mounted UPS equipment connected to the standby power source. Dual-corded network equipment will then typically plug one cord into a normal power circuit and the other cord into the rack-mounted UPS.

Communications support rooms will be lit to a minimum of 50 foot candles horizontal illumination and 20 foot candles vertical illumination between the equipment rack rows (measured at three feet above the floor).

Access to Communications support rooms will be controlled by the building access control system to allow the Owner to track access to the rooms.

Mechanical Requirements

Communications support rooms will be maintained at between 68 and 72 degrees Fahrenheit with 30% to 50% relative humidity at all times. If the building HVAC system cannot provide continuous operation or adequate capacity to meet these criteria, supplemental cooling units will be installed.

Cooling requirements for the MER and TRs will be sized at 2 tons per room.

Piping Requirements

The MER and TRs will be sprinkled and include protective cages around the sprinkler heads.

Fire protection for the Cray Cluster room will be established later in the design process.

SECURITY

Electronic Access Control

The existing campus electronic access control system will be extending to cover the building.

Electronic access control will be provided at:

- All exterior doors
- MEPT equipment rooms
- Select doors identified as suite control points

Video Surveillance

The existing campus video surveillance system will be extending to cover the building.

Video surveillance cameras will be provided to show:

- All exterior door (viewed from inside and outside the building)
- General building exterior
- Select internal public corridors

Most interior doors will use traditional keys to control access. Card access will be used only in higher security areas that require entry tracking, or for doors with high key-count distribution where traditional key management becomes difficult.

AUDIO-VISUAL (A/V) SYSTEMS

System Description

Audiovisual technology planning will adhere to DFD A/V guidelines, as well UW-Eau Claire campus standards and AVIXA's AV industry accepted design standards. Additionally, all required building codes will also apply.

Where applicable, the A/V system will use a dedicated A/V network and HDBaseT-based networking for signal transport and distribution to minimize the cabling size and quantity required for the system.

Room-Types

The anticipated design elements listed for the room types below will be refined into working system descriptions after A/V programming meetings are completed with the user groups responsible for defining the A/V operational requirements for the spaces.

Large Lecture Hall

Anticipated design elements:

- Primary video input source from presenter device (e.g. laptop, tablet)
- Secondary presenter video input sources available (e.g. blu-ray player, document camera, static document)
- Sound reinforcement (i.e. ceiling mounted speakers)
- Mic input for presenter only
- Assistive listening system
- Ceiling mounted projectors
- Retractable projection screens
- Lecture capture system
- Flat panel displays for presenter confidence monitor
- Fully programmable touch panel system interface
- Lighting control integration at touch panel
- Motorized shade control integration at touch panel (if applicable)
- Projection screen control integration at touch panel and local control
- Dedicated AV equipment room outside the lecture hall footprint

Active Learning Classrooms

Anticipated design elements:

- Primary video input source from presenter device (e.g. laptop, tablet)
- Secondary presenter video input sources available (e.g. blu-ray player, document camera, static document)
- Secondary student video input sources available at student table groups (controlled from presenter station)
- Sound reinforcement (i.e. ceiling mounted speakers)
- Movable presenter location/podium
- Mic inputs for presenter and student table groups
- Assistive listening system
- Ceiling mounted projectors for primary content
- Retractable projection screens
- Wall mounted flat panel monitors for local display of student content
- Lecture capture system
- Fully programmable touch panel system interface
- Lighting control integration at touch panel
- Motorized shade control integration at touch panel (if applicable)
- Projection screen control integration at touch panel and local control
- Dedicated AV equipment room outside the active learning classroom footprint

Teaching Labs (<25 students)

Anticipated design elements:

- Primary video input source from presenter device (e.g. laptop, tablet)

- Secondary presenter video input sources available (e.g. blu-ray player, document camera)
- Sound reinforcement (i.e. ceiling mounted speakers)
- Mic inputs for presenter only
- Ceiling mounted projector
- Retractable projection screen
- Fully programmable touch panel system interface
- Projection screen control integration at touch panel and local control
- AV equipment in casework-mounted equipment rack within room

Collaboration Spaces (video-conferencing enabled)

- Anticipated design elements:
- Video input source from table furniture in room
- Beam-forming, ceiling mounted mic input
- Video camera
- Fully programmable touch panel system interface with video-conferencing setup and control
- Two flat panel monitors (sized based on maximum viewing distance)

Collaboration Spaces (local display only)

Anticipated design elements:

- Video input source from table furniture in room
- Wall mounted push button system interface
- Flat panel monitor (sized based on maximum viewing distance)

Digital Signage

Anticipated design elements:

- Centralized video source management
- Flat panel displays at required locations throughout building

Project scope for this system will include hardware and control software only. All content will be developed by UW-Eau Claire.

TWO-WAY COMMUNICATION SYSTEM

System Description

As described in section 1009.8 of the International Building Code, a two-way communication system shall be provided in each area of refuge identified on the life safety plans and at the landing serving each elevator or bank of elevators on each accessible floor that is one or more stories above or below the level of exit discharge.

Landings serving only service elevators that are not designated as part of the accessible means of egress or do not serve as part of the required accessible route into a facility do not require installation of a two-way communication system. A two-way communication system is also not required at landings serving only freight elevators.

System Requirements

The two-way communication system shall provide communication between each required location and the fire command center or a central control location approved by the fire department. If the central control location is not a constantly attended location, the two-way communication system shall automatically dial-out to a monitoring location or 9-1-1.

All devices shall provide real-time, two-way communication between the calling remote station and the central control location, including if the central control location is offsite or via 9-1-1.

The two-way communication system devices shall include both audible and visible signals.

Cabling between devices shall have a survivability level of 3 as defined in NFPA 72. This survivability level will be achieved by using CI or CIC rated cable in either open air or conduit pathways.

System operation instructions and signage indicating special accessibility provisions shall be provided as required by the IBC.

EMERGENCY RESPONDER RADIO REINFORCEMENT SYSTEM

System Description

As described in the Wisconsin Building Code, all new buildings shall have approved radio coverage for emergency responders

within the building based on the existing coverage levels of the public safety communication systems of the jurisdiction at the exterior of the building.

Licensing and approval for this system shall be accomplished through the entity holding the FCC license for the existing public safety communication systems.

System Requirements

Minimum required system coverage and signal strength shall be as defined in the Wisconsin Building code. System shall be capable of receiving final approval from the local fire code official.

The system shall be powered from at least two independent power sources. The primary source shall be a dedicated branch circuit from the building's normal power distribution system. The secondary source shall be a dedicated battery system with a minimum of 12 hours runtime at 100 percent system load.

The system shall include automatic supervisory signals to communicate system malfunctions to the building's fire alarm system, in addition to annunciating system faults at a dedicated system panel.

The system shall be capable of adapting to frequency changes in the public safety communication system without having to replace the entire system head-end.

The system will use a roof-mounted donor antenna to connect to the public safety communication system.

7.0 CODE REVIEW

The following code review is based on the 2018 International Building Code, which is anticipated to be adopted by the State of Wisconsin and incorporated into the Wisconsin Commercial Building Code prior to start of construction in late 2022. The current Wisconsin Commercial Building Code references the 2015 International Building.

CHAPTER 1: ADMINISTRATION

Public buildings and places of employment constructed or altered in the State of Wisconsin are to meet the requirements of the Wisconsin Commercial Building Code. In addition to these rules the State of Wisconsin, Division of Facilities Development design standards are to be followed. The Department of Safety and Professional Services of Wisconsin will perform a review of the building design prior to construction to ensure compliance with the Wisconsin Enrolled Commercial Building Code.

CHAPTER 2: DEFINITIONS

Control Area - Spaces within a building that are enclosed and bounded by exterior walls, fire walls, fire barriers and roofs, or a combination thereof, where quantities of hazardous materials not exceeding the maximum allowable quantities per control area are stored, dispensed, used or handled.

Maximum Allowable Quantities (MAQ) - Limits to the manufacturing, processing, generation or storage of materials that constitute a physical or health hazard in quantities in excess of those allowed in control areas set forth is Tables 307.1(1) and 307.1(2).

CHAPTER 3: USE AND OCCUPANCY

The intended use of the building determines the Occupancy Classification. All parts of the building are considered independently from one another by their intended usage. This building falls into two occupancy classifications: A, which includes spaces utilized for assembly, and B, which includes educational facilities above the 12th grade. These disparate occupancies exist in the building without separation and as such must be considered as a whole, held to the strictest occupancy type requirements in various code sections. As such the overall building classification is non-separated mixed use. If the occupancy types are to be separated then 2 hour fire-barriers would be required.

Occupancy Summary:

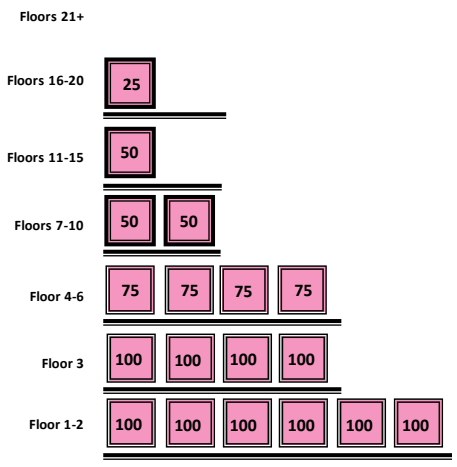
Primary Occupancy - Group B Business

Other Occupancies - Group A Assembly A3 (Auditorium, Planetarium), Group S (Storage areas), Group U (Greenhouse).

Example of Control Area Application

Material Example: Class I A, B & C Flammable and Combustible Liquids *Only*

(Quantities are reduced when combined with the same classification of hazardous materials in use in the Control Area)



Example of Allowable Quantities for Class IA, B & C Chemicals Only.

- Actual quantities will be reduced when combined with the same hazardous materials in use in the Control Area. Quantities are never to exceed the total permitted for storage.
- The quantities below are for a fully sprinklered building and the hazardous material is in safe storage.

IBC Flam Liq	100%	75%	50%	25%
Class IA	120	90	60	30
Class IB	480	360	240	120
Class IC	480	360	240	120
Combined	480	360	240	120

Maximum Allowable Aggregate Quantity (open operations + closed operations + safe storage) **in Control Area**

Key

- 2 Hr. Rated Horizontal
- 2 Hr. Rated Vertical
- 1 Hr. Rated Vertical
- # % of Maximum Allowable Quantity of Hazardous Material per Control Area

The Maximum Allowable Quantities (MAQ) for various chemicals are identified in Tables 307.1(1) and 307.1(2). The owner will limit the presences of chemicals in the various control areas to those identified in the tables.

CHAPTER 4: SPECIAL DETAILED REQUIREMENTS

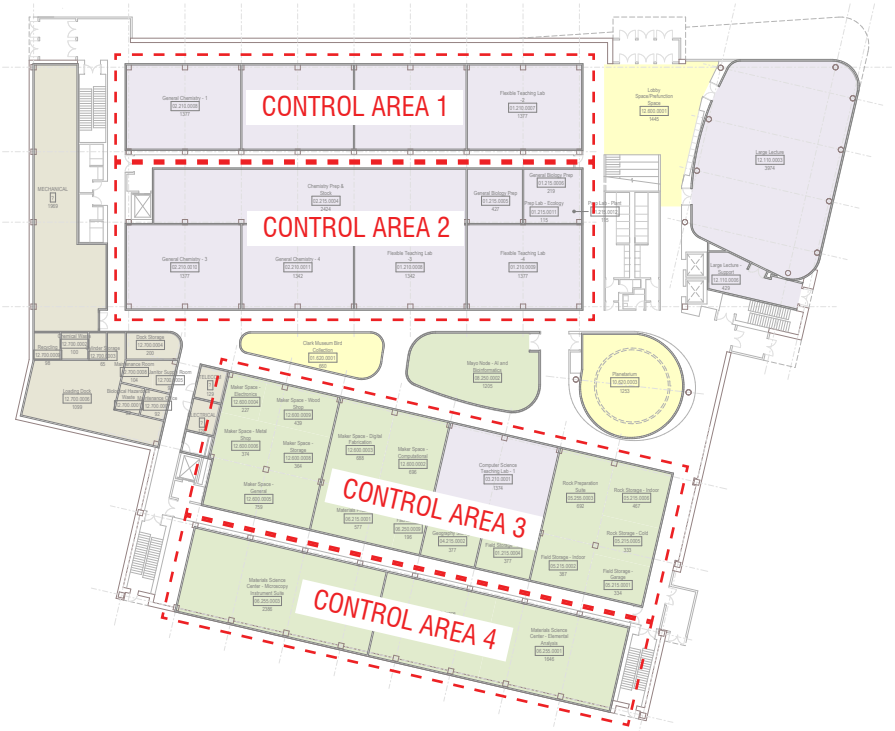
This building will be designed as a High-Rise Building per Section 403, due to the projected height of the highest occupied floor being located more than 75 feet above the lowest level of fire department vehicle access.

High rise requirements include a required 200 SF Fire Command Center, an automatic sprinkler system additional requirement, a fire pump and fire pump room, emergency systems additional requirements, HVAC requirements, including stair pressurization, luminous markings in exit enclosures, additional loads on emergency power systems, as well as various other requirements in section 403.

The Design Team is consciously working to avoid any atrium classifications per Section 404.

2018 IBC added Section 428 which is specific to Higher Education Laboratories. Section 428 allows for the creation of “Laboratory Suites” in lieu of control areas. Laboratory Suites will be provided in accordance with Table 428.3.

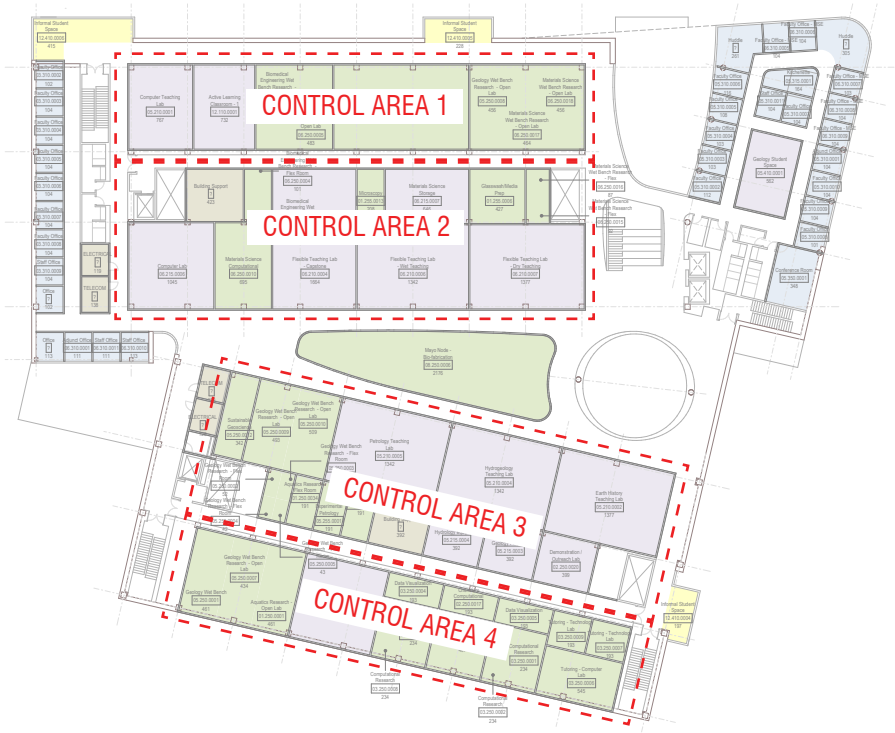
The layout divides the building into north and south “wings” each organized around a cluster of laboratories and associated support space. It is anticipated that the North and South wings will each have 2 control areas for a total of 4 control areas per floor. In each wing one control area will encapsulate a row of labs and the support zone, while the other control area encapsulates the remaining adjacent laboratories.



OCCUPANT CATEGORY

- BUILDING SUPPORT
- EDUCATION
- PUBLIC
- RESEARCH

FIRST FLOOR CONTROL AREAS



OCCUPANT CATEGORY

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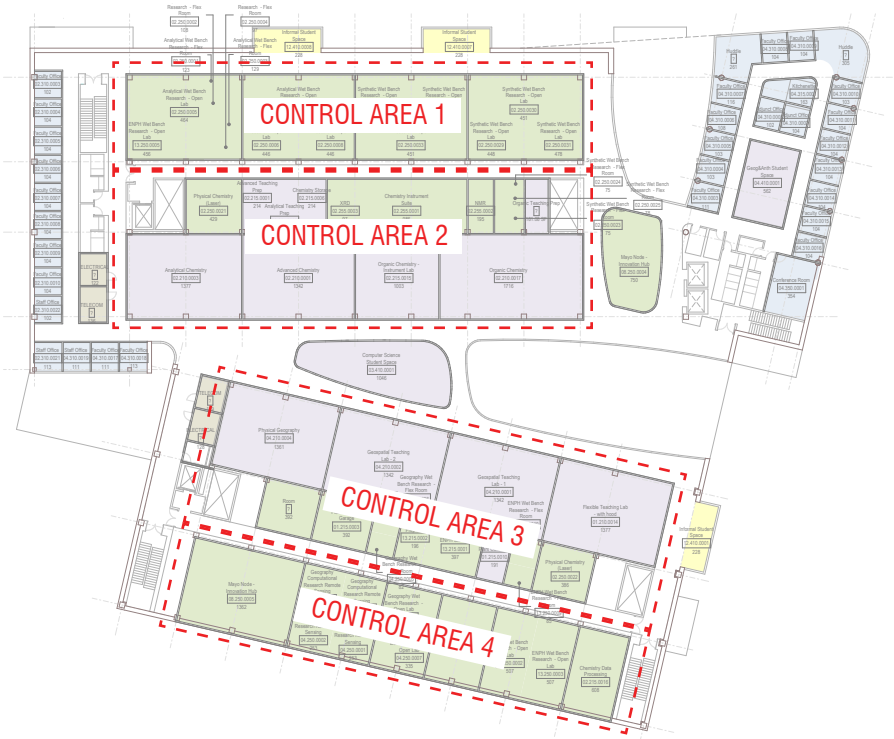
- BUILDING SUPPORT
- EDUCATION
- PUBLIC
- RESEARCH

SECOND FLOOR CONTROL AREAS



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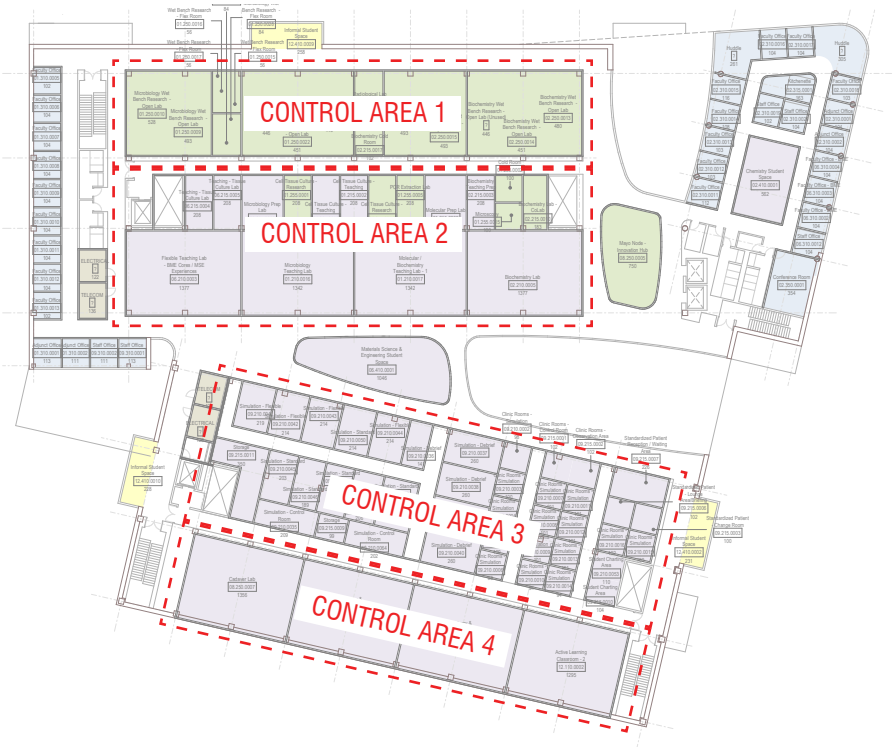
- BUILDING SUPPORT
- EDUCATION
- PUBLIC
- RESEARCH

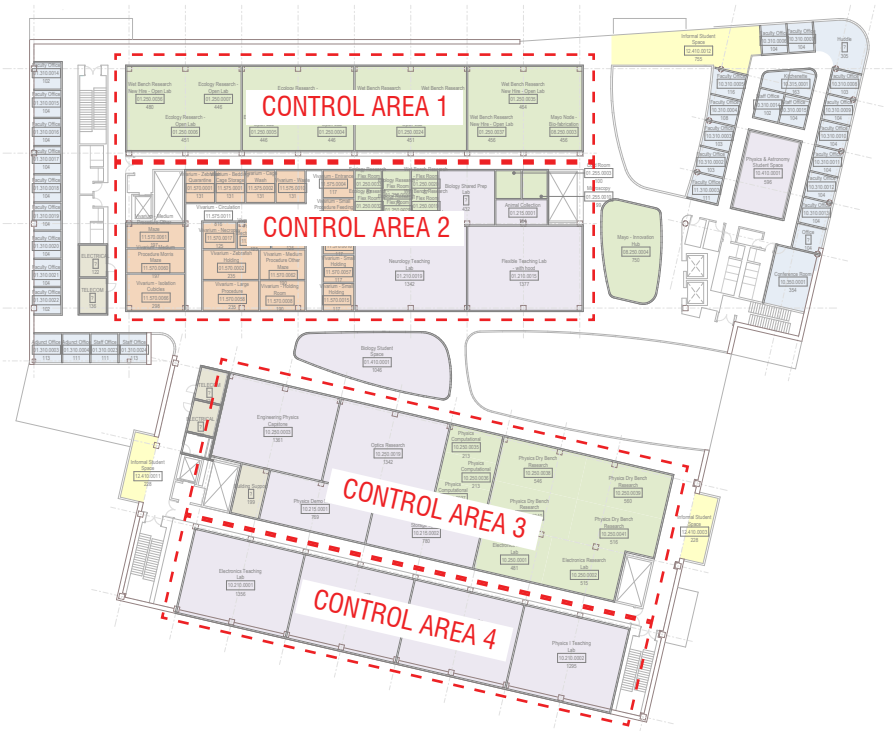
THIRD FLOOR CONTROL AREAS



OCCUPANT CATEGORY

- ADMINISTRATION
- BUILDING SUPPORT
- EDUCATION
- PUBLIC
- RESEARCH

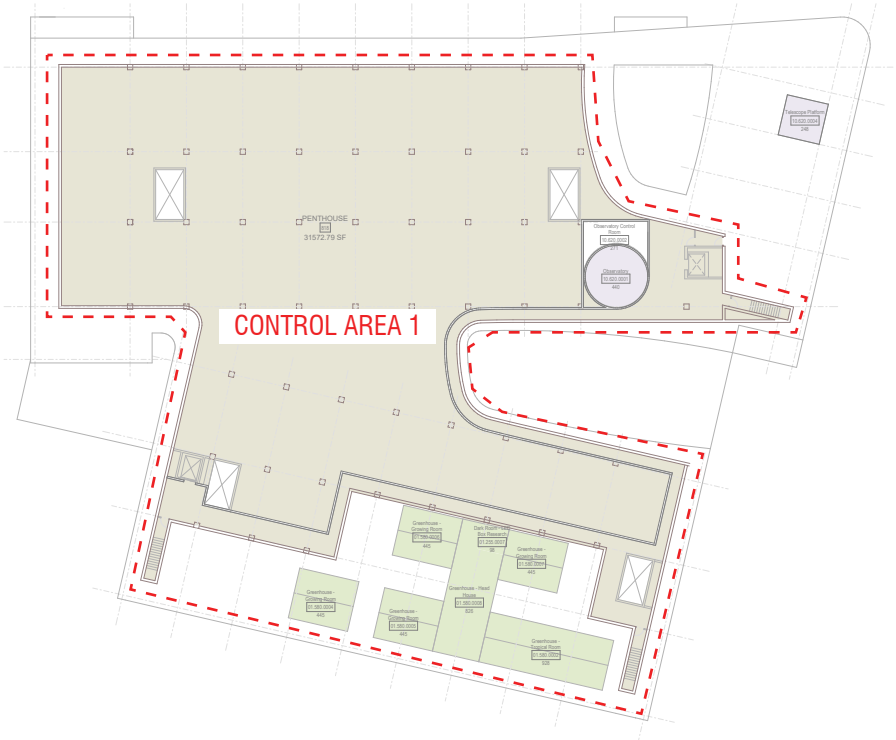
FOURTH FLOOR CONTROL AREAS



OCCUPANT CATEGORY

- ADMINISTRATION
- BUILDING SUPPORT
- EDUCATION
- PUBLIC
- RESEARCH
- VIVARIUM

FIFTH FLOOR CONTROL AREAS



OCCUPANT CATEGORY

- BUILDING SUPPORT
- EDUCATION
- RESEARCH

PENTHOUSE CONTROL AREAS

CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS

The projected and allowable height and the number of stories of the Science building are listed below:

- First Floor Height – 20'
- Floors 2-5 - 16' floor to floor height
- Mechanical Penthouse maximum height – 24'
- Approximate Projected Overall Height – 108'
- Allowable Building Height Above the Grade Plane – 180'
- The total number of stories for the building will be 6, including the mechanical penthouse.
- Allowable Number of Stories Above the Grade Plane – B and A-3 Occupancy – 12 Stories.

The allowable building height and area are based on a combination of Occupancy Classification and Construction Type. Type 1B Construction is planned for this building. The primary Occupancy type for the building is Business (B). The Secondary Occupancy is Assembly (A-3), which includes Lecture Halls. Both of these types have the same allowable building height and number of stories. Type 1B, with an automatic sprinkler system, has an allowable height of 180 feet above the grade plan. The allowable number of stories is 12 for Type IA construction with an automatic sprinkler system.

The projected gross area of the building is 330,000 GSF.

This includes a Penthouse area of 43,000 GSF.

The allowable area for Occupancy B and A-3 with a sprinkler system is Unlimited.

CHAPTER 6: TYPES OF CONSTRUCTION

Type IB Construction has been planned for this building. Type I construction has building elements that generally contain noncombustible materials. The primary structural frame has a 3 hour fire-resistance rating requirement. Nonbearing walls and partitions are not required to be rated. Floor construction carries a 2 hour rating requirement. The roof construction has a 1 hour requirement.

CHAPTER 7: FIRE PROTECTION FEATURES

The fire-resistance rating of structural elements is based on the requirements of Chapter 6. The allowable area of openings in exterior walls is based on Fire Separation Distance. The Fire Separation Distance of greater than 20 feet for a building with a sprinkler system means that the amount of openings in exterior walls is unlimited. Due to the construction classification, the size of the building, and the occupancy types contained within, a fire wall will not be required. Shafts protecting openings and penetrations between floors are to be fire-resistance-rated fire barriers. This applies to elevator shafts, required means of egress stairs, duct chases, etc. These enclosures are to be 1-hour fire-resistance-rated when connecting three or fewer floors and 2-hour fire-resistance-rated when connecting four or more floors. Openings in these enclosures are also to be fire-resistance-rated. Where the fire barrier is to be 1-hour rated the doors are to be 1-hour rated as well. For 2-hour fire barriers the doors are to be 1 ½ hour rated. Fire barriers are to be continuous from, and securely attached to, the floor assembly below to the underside of the floor above. Supporting structure shall also be fire-rated equal to the barrier supported. With the installation of the required sprinkler system throughout the building, corridors for this project are reduced to a 0-hour fire-resistance rating.

CHAPTER 8

Chapter 8 refers to interior finishes, including floors, walls and ceilings. In general, interior finishes are required to be noncombustible in Type IB, or directly attached to noncombustible construction.

CHAPTER 9: FIRE PROTECTION SYSTEMS

Wet and dry sprinklers will be installed throughout the building to provide 100% protection in accordance to NFPA 13. Exceptions allowed by NFPA 13 will eliminate sprinklers in the main electrical rooms that are constructed to a minimum fire rating of 2 hours.

Connections for the standpipes will be located in the required stairways. The standpipes are to be interconnected. Portable fire extinguishers are required to be located in areas where flammable or combustible liquids are stored, used, or dispensed, and within special hazard areas as required by the fire code official. In addition, Portable fire extinguishers will be located so there is no part of the building that is greater than 100' from the extinguisher.

Occupancy Hazards will include:

Laboratories	Ordinary Hazard - Group 1
Laboratories(Flammable)	Ordinary Hazard - Group 2

CHAPTER 10: MEANS OF EGRESS

The means of egress requirements are based on the number of occupants for each space. The design occupant load is determined by the actual occupant loads when it can be determined, as for a classrooms space, or by using occupant load factors for individual spaces.

The Occupant Loads for this building are as follows:

Estimated Design Occupant Load (Based on preliminary layouts)

First Foor	885 occupants
Second Floor	525 occupants
Third Floor	525 occupants
Fourth Floor	525 occupants
Fifth Floor	525 occupants
Penthouse	100 occupants
Total	3,085 occupants

Table 1004.1.2 Maximum Floor Areas Allowances per Occupant

Below are the applicable functions:

- Business areas – Offices = 100 square feet per occupant, gross.
- Assembly unconcentrated (tables and chairs) – Conference Rooms, Collaboration Spaces = 15 square feet per occupant net
- Assembly concentrated (chairs only, not fixed) = 7 square feet per occupant net
- Assembly fixed seating – Classrooms, Auditoria = by seat
- Educational – classrooms = 20 square feet per occupant net, or by seat.
- Educational – shops and vocational – Vivarium, Greenhouse, Herbarium = 50 square feet per occupant net
- Bird Museum = 50 square feet per occupant net
- Industrial Areas – Shop = 100 square feet gross
- Accessory storage areas, mechanical, equipment rooms = 300 square feet gross.

Section 1006 – Number of Exits

Three or more exits from each floor will be required, because the estimated occupant load falls between 501 to 1,000 per floor, with the exception of the Mechanical Penthouse Level, which will require a minimum of two exits. The Maximum common path of egress travel distance will be 100' for Business occupancy with a sprinkler system.

Two exits will be required for each space that exceeds 49 occupants.

At .2" per occupant, each stairway will be designed at around 60" in width, for a total of 300 occupants per stair. Three stairways would be required for most levels. Four egress stairways are being designed for convenience purposes, two in each bar of the building.

Other egress component capacities, such as doors, shall be calculated based on .15 inches per occupant. Typical doors will be 36" wide, with 34" clear opening, and a capacity of 226 Occupants per door. The minimum required doors on Level 1 will be four. However, there will be six doors at the main entry, four doors at the west entry, and two doors at the four remaining secondary entries. At least 18 doors will be provided on the first floor.

Section 1009.2.1 states that in buildings where a required accessible floor is four or more stories above the level of exit discharge, not less than one required means of egress shall be an elevator with standby power. Areas of refuge are not required due to the building being fully sprinkled.

Table 1017.2 states that the maximum exit access travel distance shall be 300 feet for Business occupancy. Any A-3 space would be 250'.

Section 1025 states that luminous egress path markings are required at the interior exit stairways on high-rise buildings.

CHAPTER 11: ACCESSIBILITY

An accessible route will connect all levels and spaces in the

building, except for some mechanical equipment spaces. 60 percent of all public entrances are required to be accessible. All public entries are currently being designed for accessibility. Accessible parking spaces will serve the building. Toilet rooms will meet accessibility requirements for toilet fixtures, partitions and sinks. All elements will be designed with appropriate reach ranges.

CHAPTER 15: ROOF ASSEMBLIES AND ROOF STRUCTURES

Penthouses: Due to the penthouse size exceeding one-third of the floor area below, the Penthouse level will be considered its own occupied floor.

CHAPTER 29: PLUMBING SYSTEMS

The plumbing fixture calculations are based on the occupant load. The calculations are as follows:

Business Occupancy Requirements:

- Water Closets
- 1 per 25 for first 50, then 1 per 50
- Lavatories
- 1 per 40, for first 80, then 1 per 80
- Drinking Fountains
- 1 per 100
- 1 Service Sink

Total Fixtures Required:

- 70 Water Closets (72 Provided)
- 47 Lavatories (54 Provided)
- 32 Drinking Fountains
- 1 Service Sink

8.0 PROJECT COST ESTIMATE

The Construction Cost Estimate is broken out as 3 separate bid packages per DFD request. Numbers rounded to nearest thousand. Abatement costs were provided by DFD in 2020 dollars. Costs are escalated to bid date, anticipating 6% escalation for 2021, 4% per year thereafter.

Bid Package One – Abate, Demolish, and Dispose of Katherine Thomas and Putnam Residence Halls

This portion of the Project may be bid earlier. Costs include complete building removal, including foundations, and disconnecting utilities at the building. Building demolition site to be backfilled and rough graded in anticipation that Bid Package 2 work will immediately follow.

Bid Package 1	2020 Estimate	2023 Bid Date Estimate
Abate Putnam	$300,000	$344,000
Abate Katherine Thomas	$60,000	$69,000
Demolish and dispose Putnam	$365,000	$419,000
Demolish and dispose Katherine Thomas	$337,000	$386,000
Total	**$1,062,000**	**$1,218,000**

Bid Package Two – New Science | Health Science Building and Site

This portion of the Project is anticipated to be bid in 2023, and includes construction of the 330,000 GSF new building, its interior construction including fixed contractor installed equipment, and all site and utilities work. Commissioning will be provided by DFD separate contract. LEED Certification is not included in the Project.

Bid Package 2	2020 Estimate	2023 Bid Date Estimate
Civil utilities and site improvements	$7,411,000	$8,498,000
New building and interior buildout	$138,388,000	$158,661,000
7% Design progression allowance	$9,687,000	$11,105,000
3% Sustainable strategies allowance	$4,152,000	$4,760,000
3% Fixed equipment allowance	$4,442,000	$5,093,000
Total	**$164,080,000**	**$188,117,000**

Bid Package Three – Abate, Demolish, Dispose of Phillips Hall, construct surface parking lot

This portion of the Project is anticipated to be bid in 2026, and includes the compete removal of Phillips Hall, reroute of steam loop located under the Phillips Hall building, general construction to build a new surface parking lot on the Phillips Hall site, and repair pavements on Campus caused by construction activities of the Project.

Bid Package 3	2020 Estimate	2026 Bid Date Estimate
Abate Phillips Hall	$850,000	$1,096,000
Demolish and dispose Phillips Hall	$1,350,000	$1,741,000
Parking lot and site repair	$2,673,000	$3,448,000
Total	**$4,873,000**	**$6,285,000**

Project Cost Estimate Summary	
Construction Cost – Bid Packages 1,2,3	$195,620,000
DFD Project contingency (13%)	$25,430,600
AE Fee + reimbursable expenses (8%)	$15,649,600
DFD Fee (4%)	$8,842,000
Other fees - EIS, Commissioning, etc. (1%)	$1,960,000
Moveable equipment allowance (3%)	$5,000,000
Estimated Total Project Cost	**$252,502,200**

9.0 PROPOSED PROJECT SCHEDULE

Task/Activity	DATE
Start Predesign Study	November, 2020
Draft Predesign Report	May, 2021
Final Predesign Report	June, 2021
A/E Begin Preliminary Design	early August, 2021
Peer Review (3 Presentations)	Summer, Fall, 2021
Prepare Bid Documents for Residence Halls Demolition (Bid Package #1)	Spring, 2022
Bid Residence Halls Demolition – early bid option (Bid Package #1)	Summer, 2022
Submit Preliminary Review and Design Report (75% complete PR review documents)	July, 2022
DFD document review and comment period	4 to 6 weeks
Submit Final Review documents	January, 2023
DFD document review and comment period	4 to 6 weeks
Bid Documents Complete (Bid Package #2)	Spring, 2023
Bid Residence Halls Demolition (Bid Package #1)	Summer, 2023
Anticipated balance of construction funds approval (Board of Regents, State Building Commission)	August, 2023
Bid New Building and Site (Bid Package #2)	Fall, 2023
Construction Start (Bid Package #2)	January, 2024
Prepare Bid Documents for Phillips Halls Demolition (Bid Package #3)	Spring, 2026
New Building and Site Substantial Completion	Spring, 2026
New Building and Site Occupancy Permit (allows move in to start)	June, 2026
Bid Phillips Demolition, Parking Lot Expansion (Bid Package #3)	Summer, 2026
Bid Package #3 Construction Start	Fall, 2026
Faculty and Students Occupy New Building	Fall Semester, 2026
Bid Package #3 Substantial Completion	Spring, 2027

Appendix A: Building Program Supplement

University of Wisconsin-Eau Claire
New Science/Health Science Building
Eau Claire, Wisconsin

DFD Project Number 19J4E

May 28, 2021

Prepared by:

Potter Lawson
Success by **Design**

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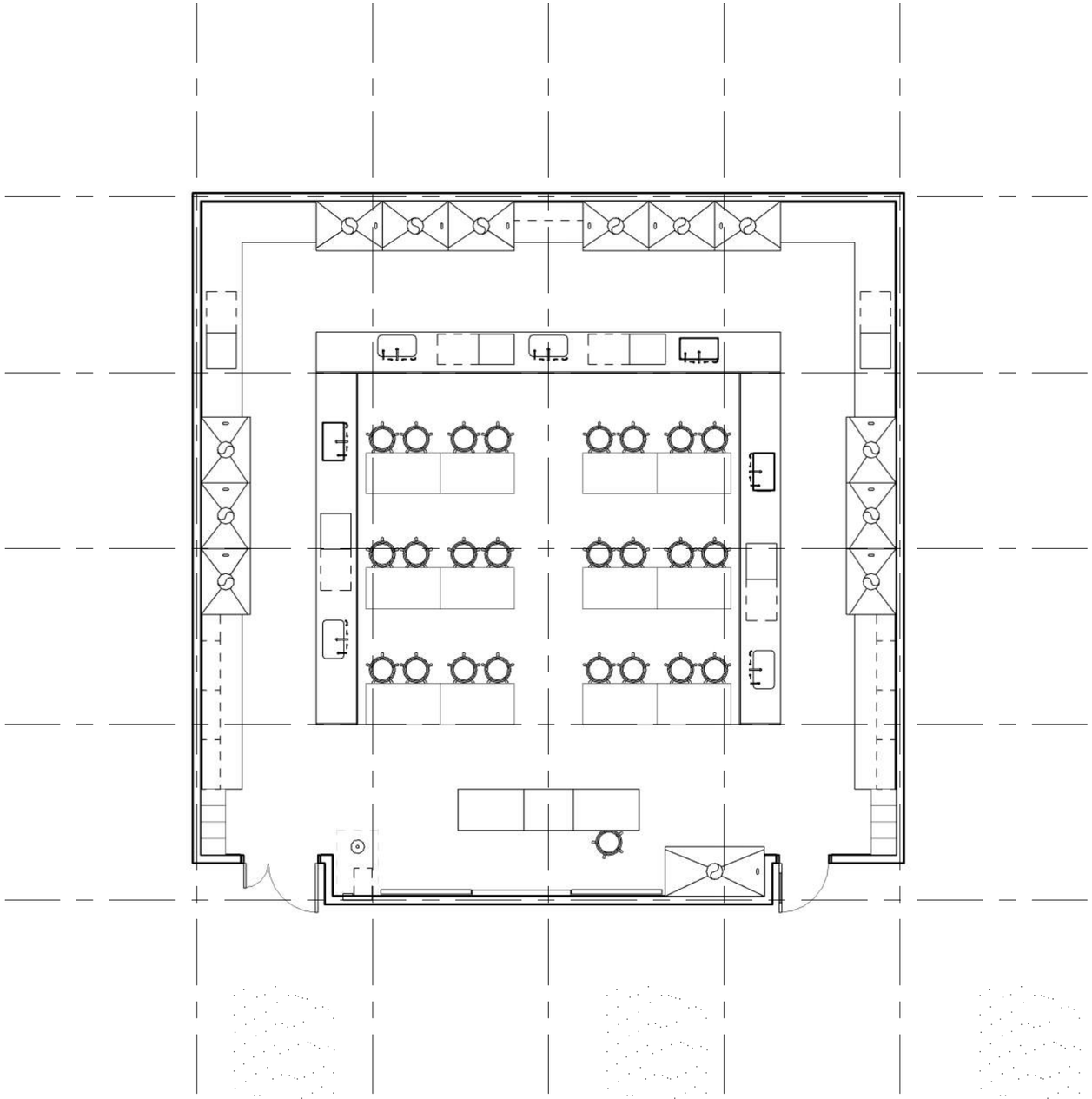

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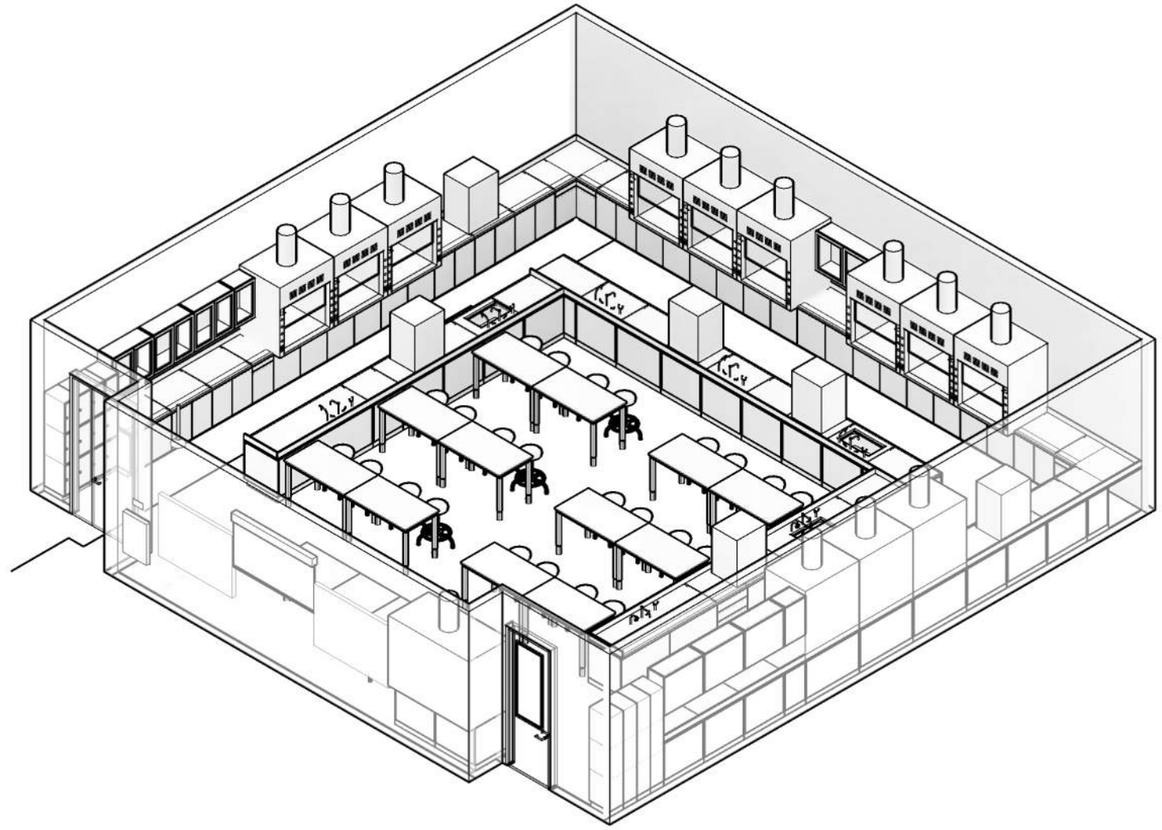

UWEC - 19J4E

TEACHING LAB 3

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Potter Lawson
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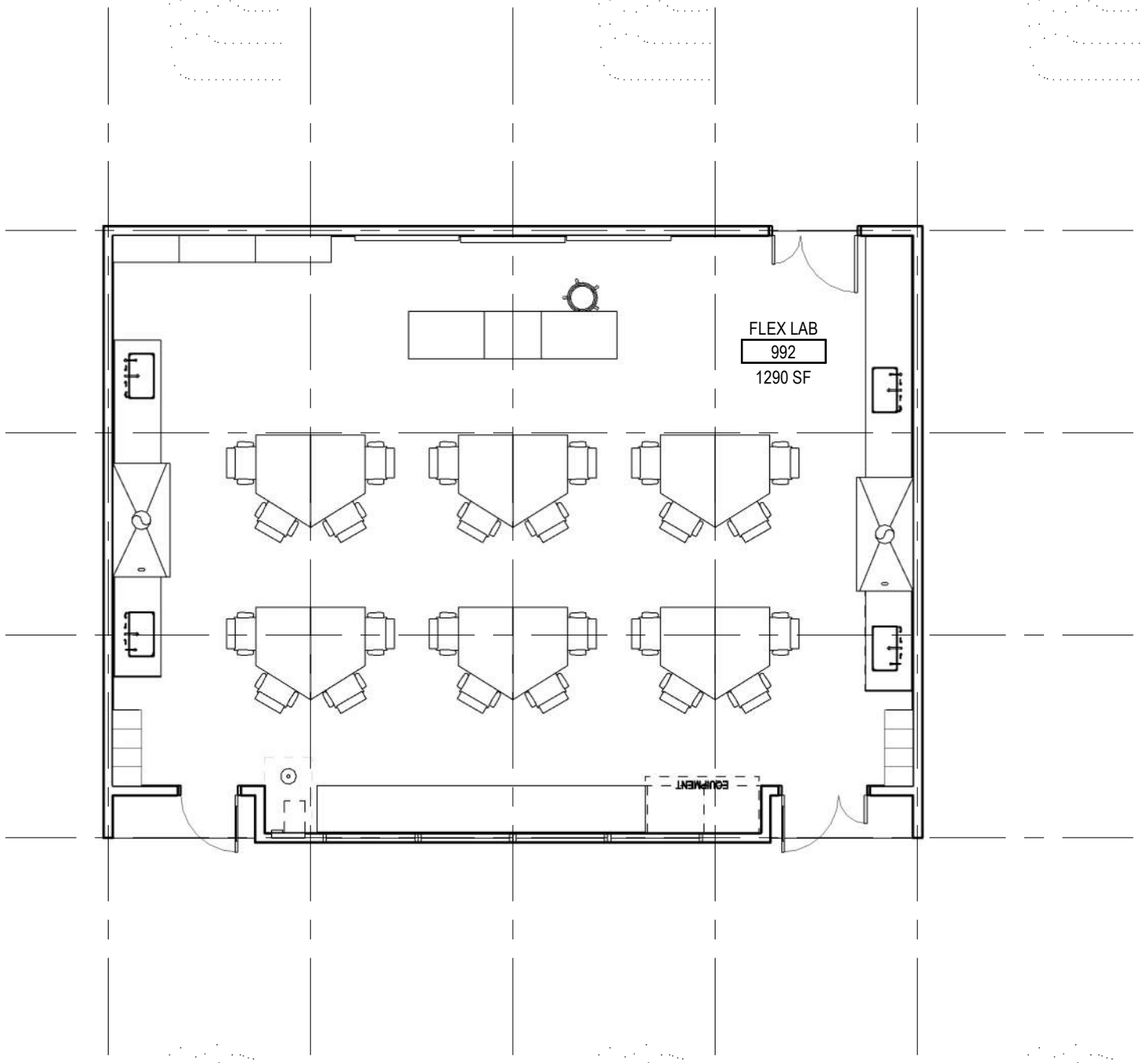

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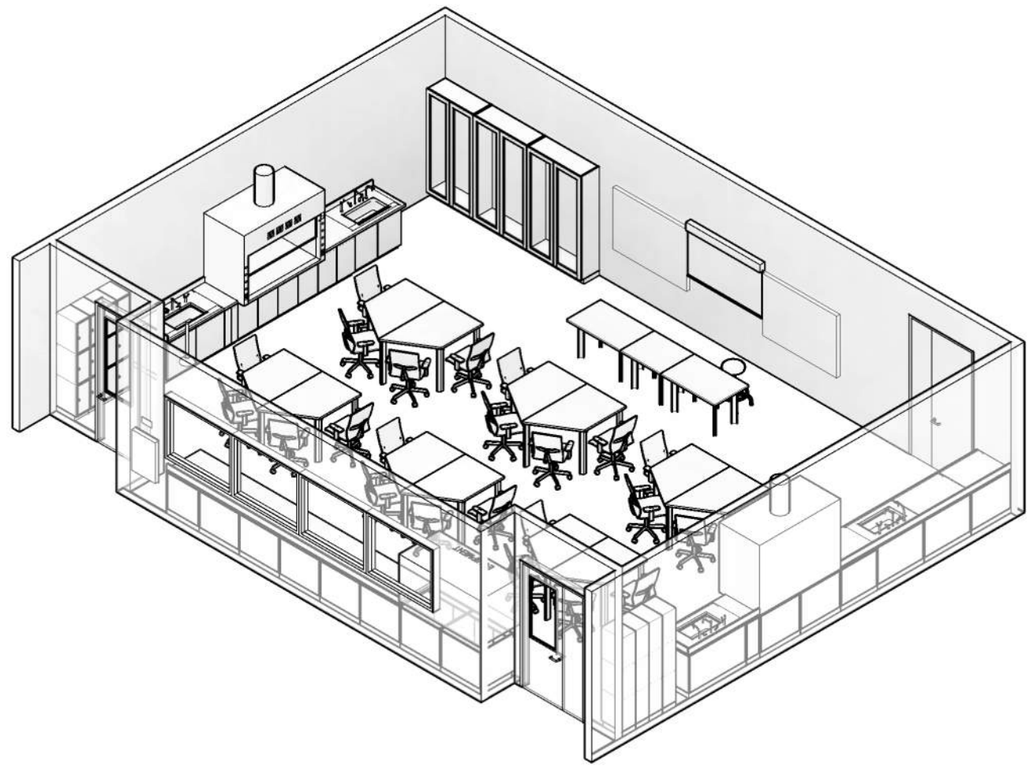

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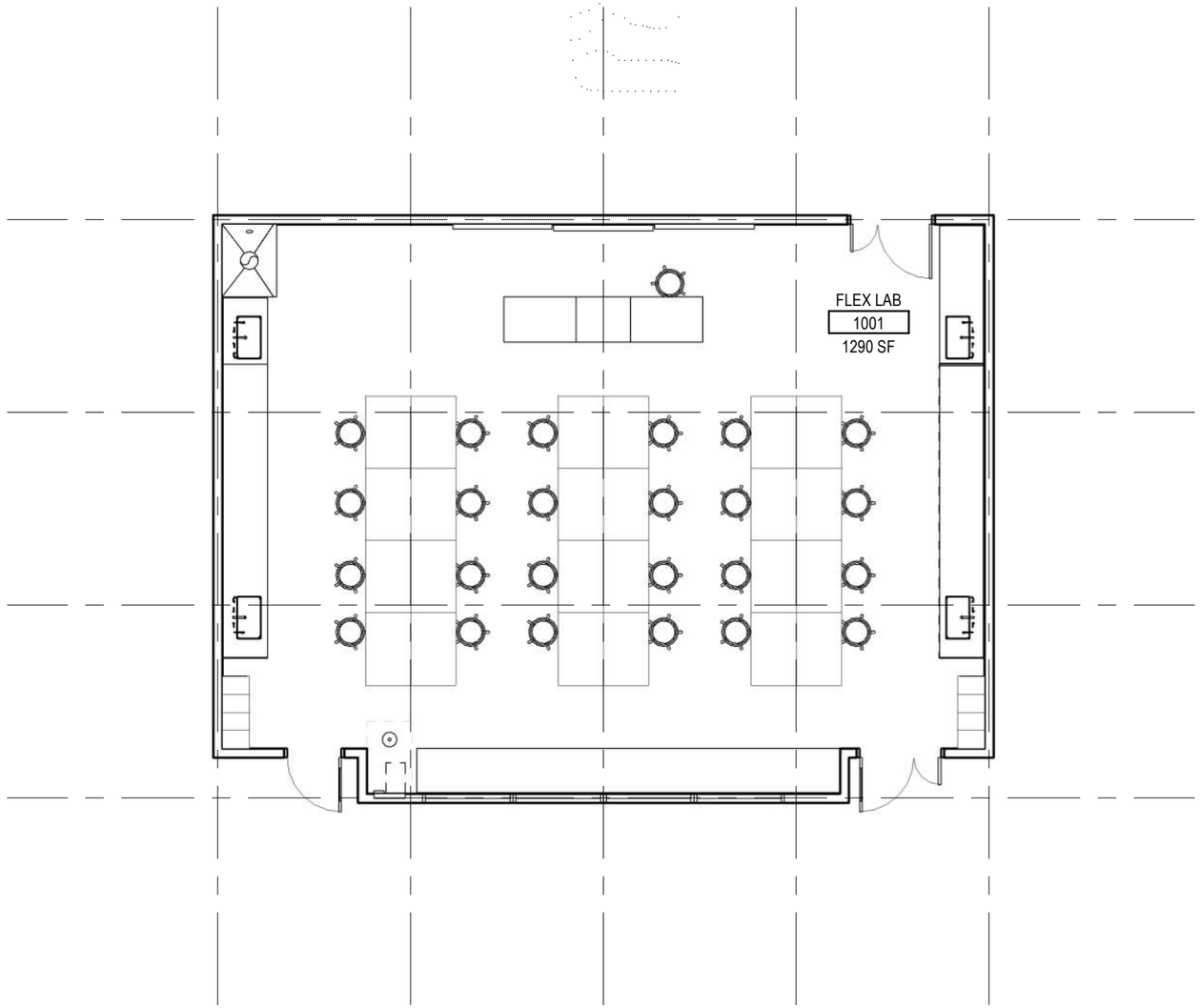

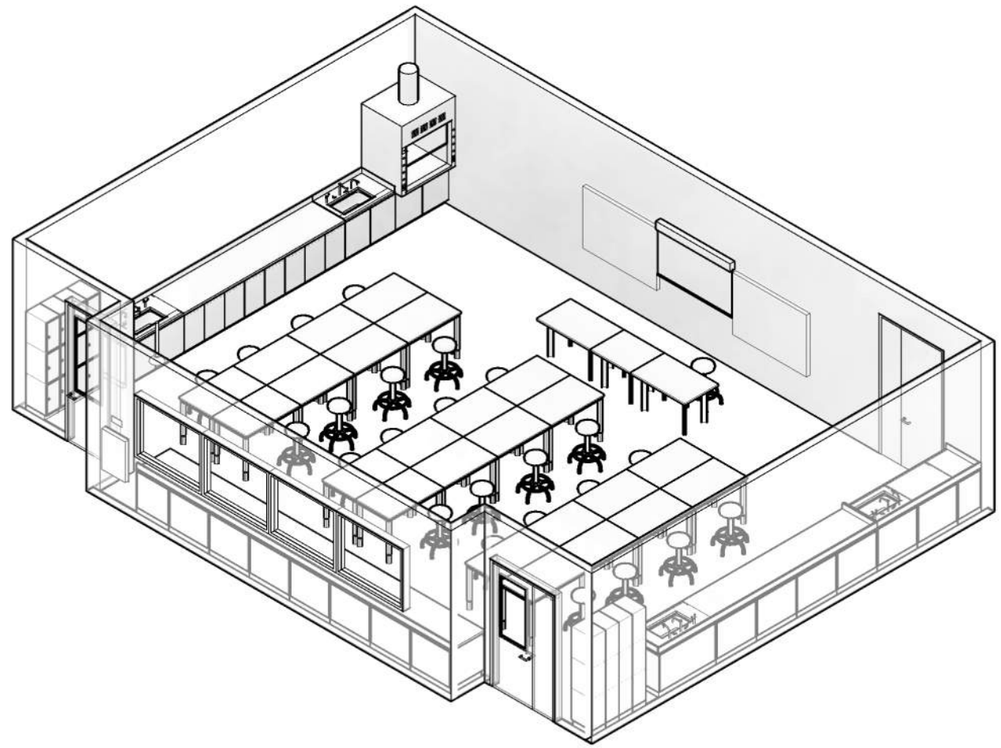

GENERAL - FLEXIBLE CASEWORK

UWEC - 19J4E

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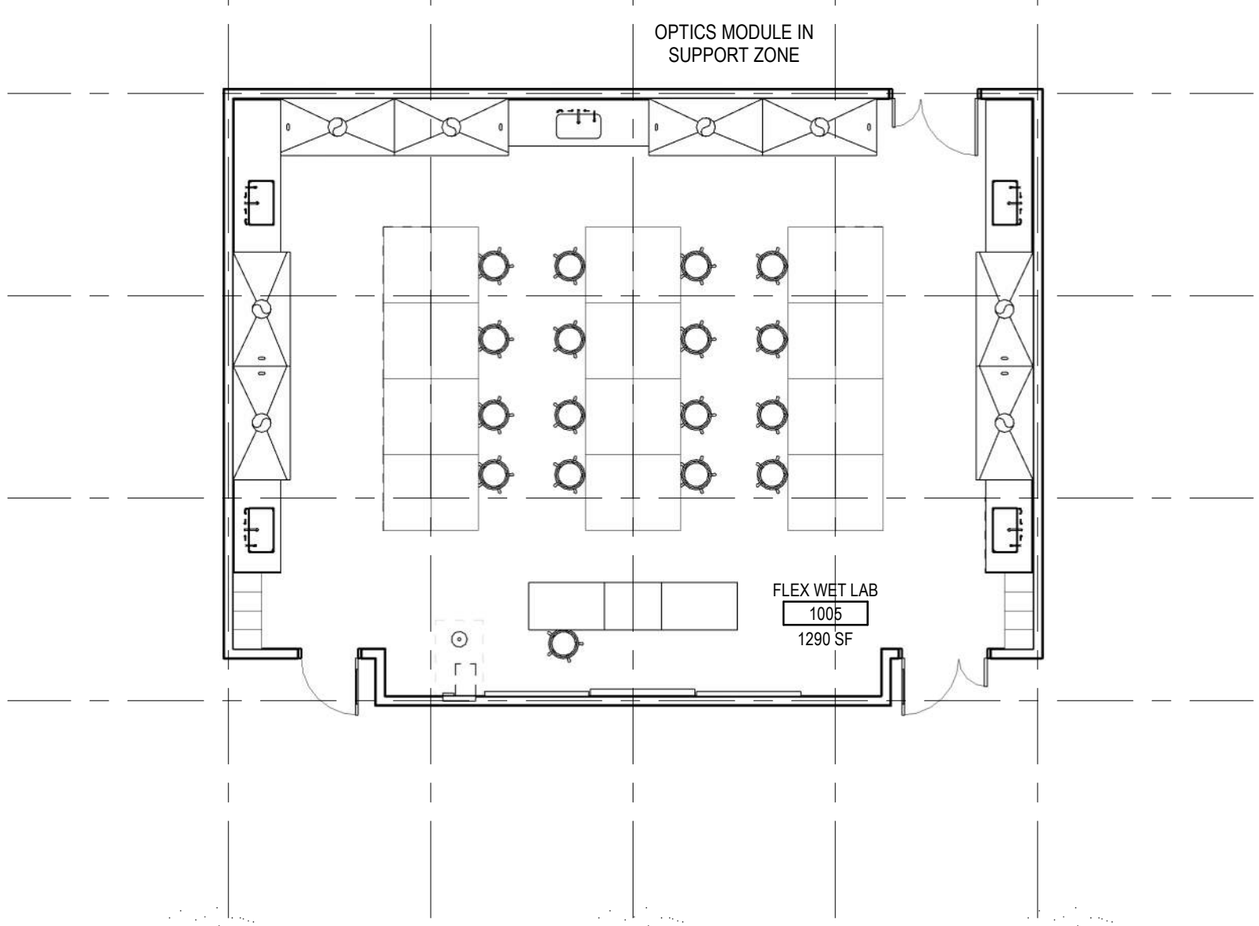

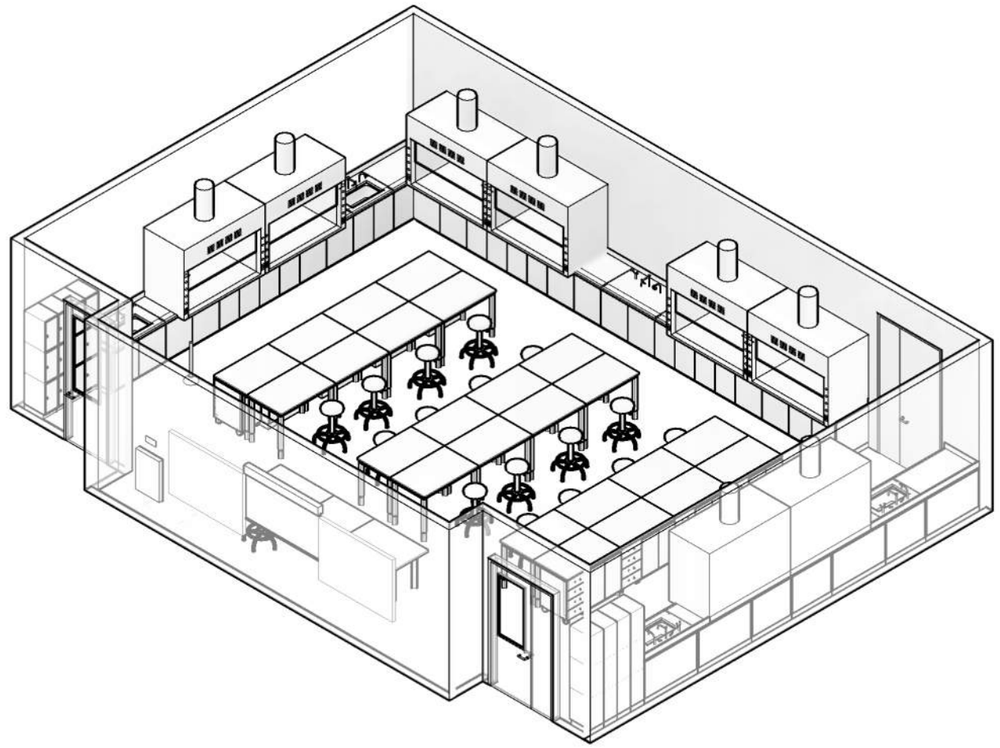

ADVANCED CHEMISTRY

UWEC - 19J4E

TEACHING LAB 6

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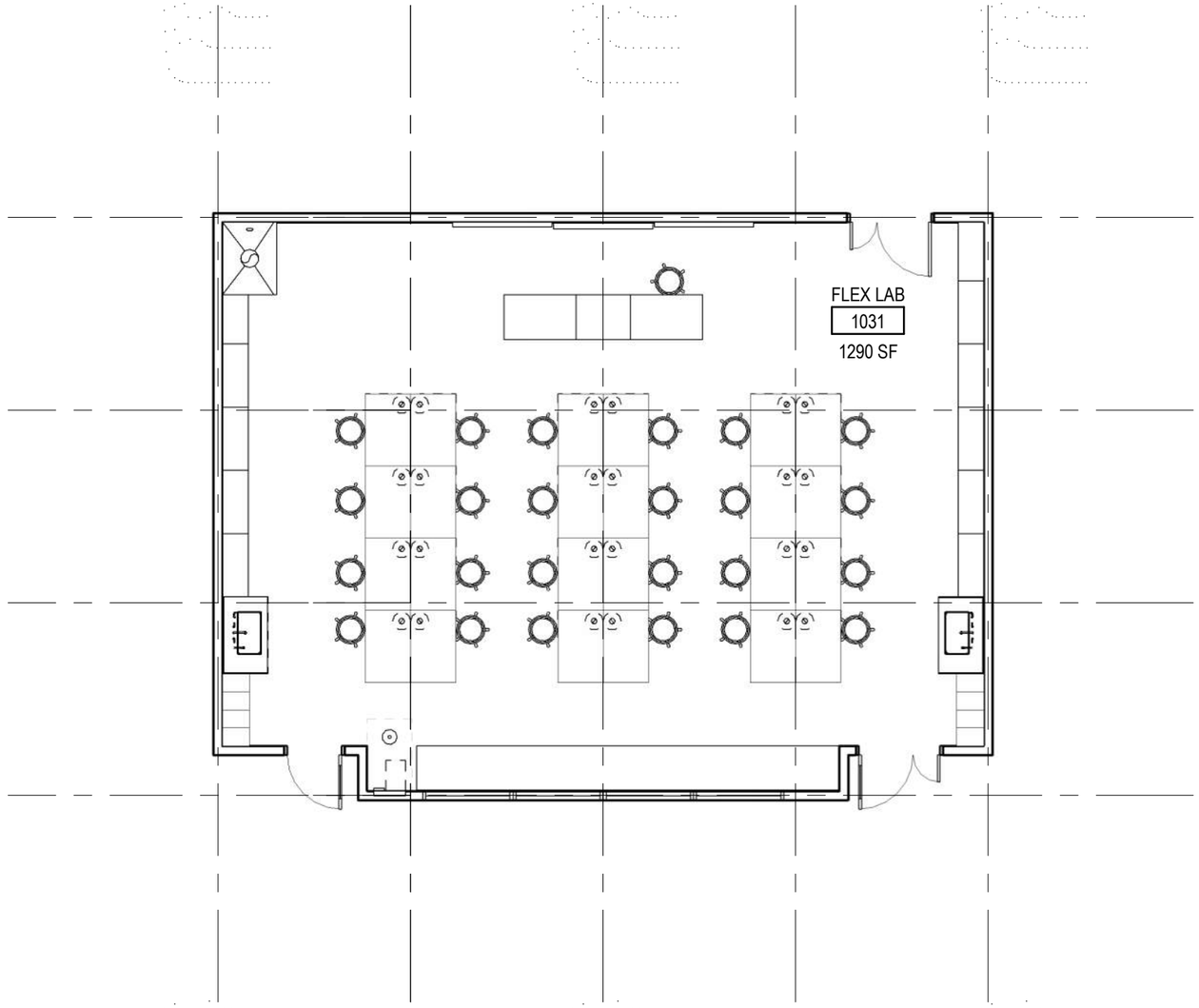

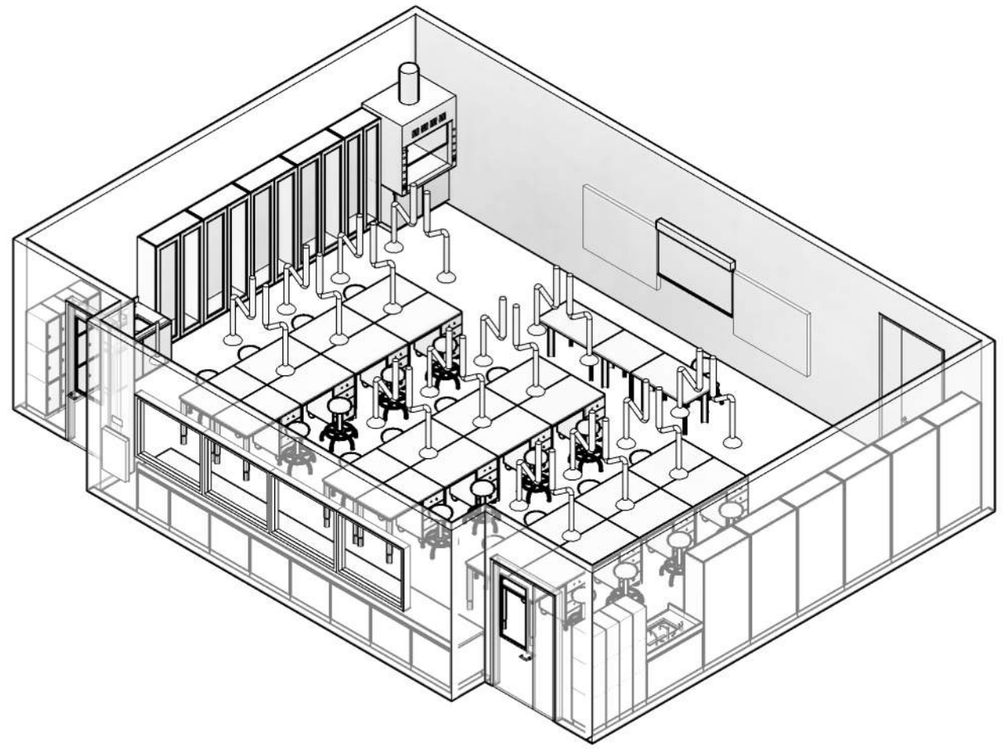

ANATOMY & PHYSIOLOGY

UWEC - 19J4E

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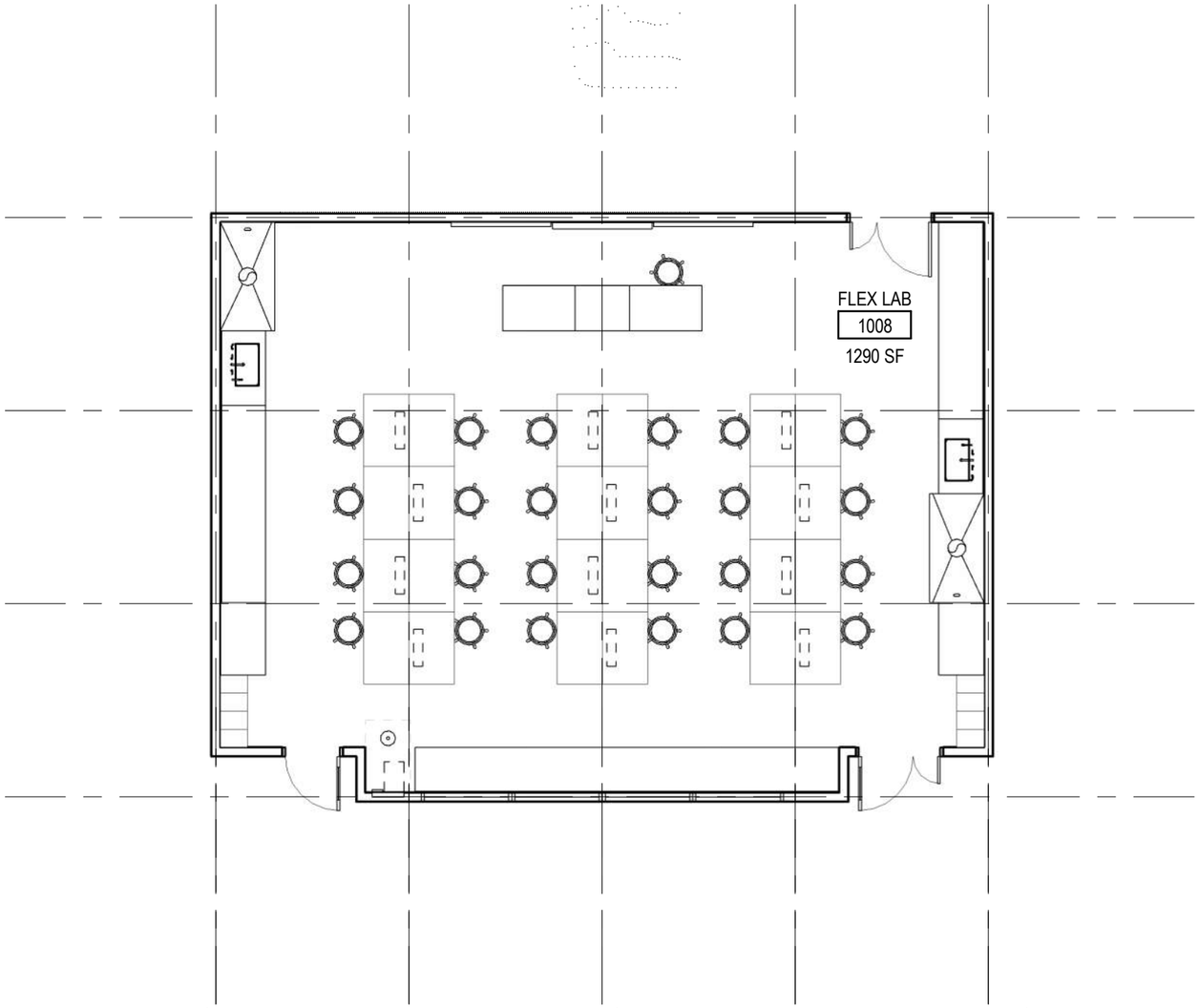

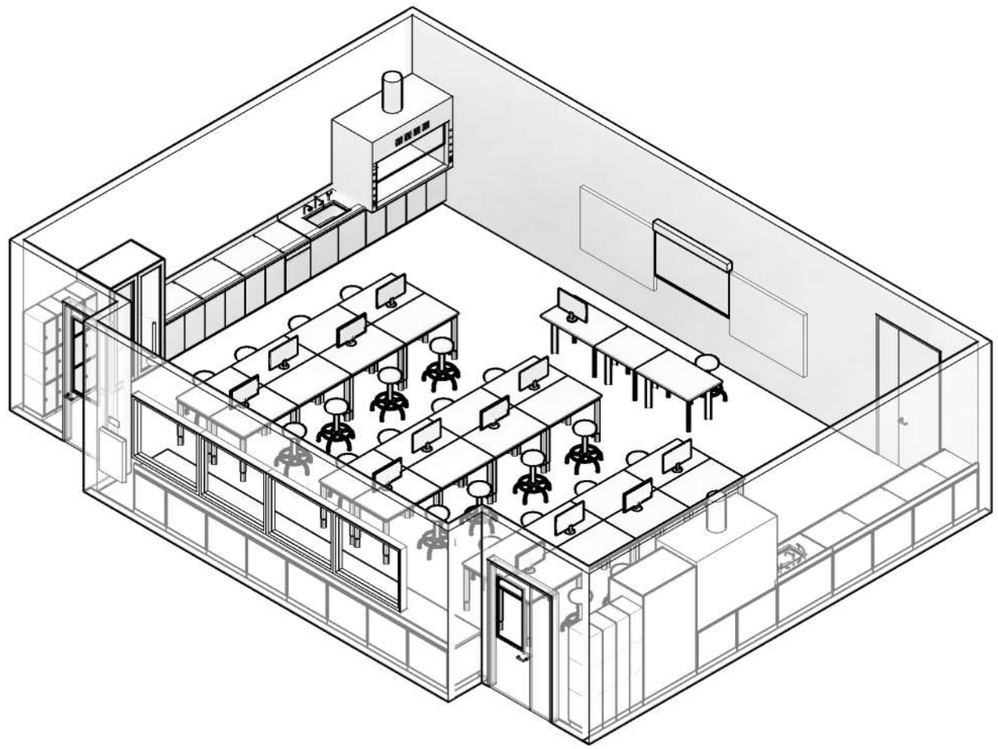

MATERIAL SCIENCE DRY BENCH

UWEC - 19J4E

TEACHING LAB 9

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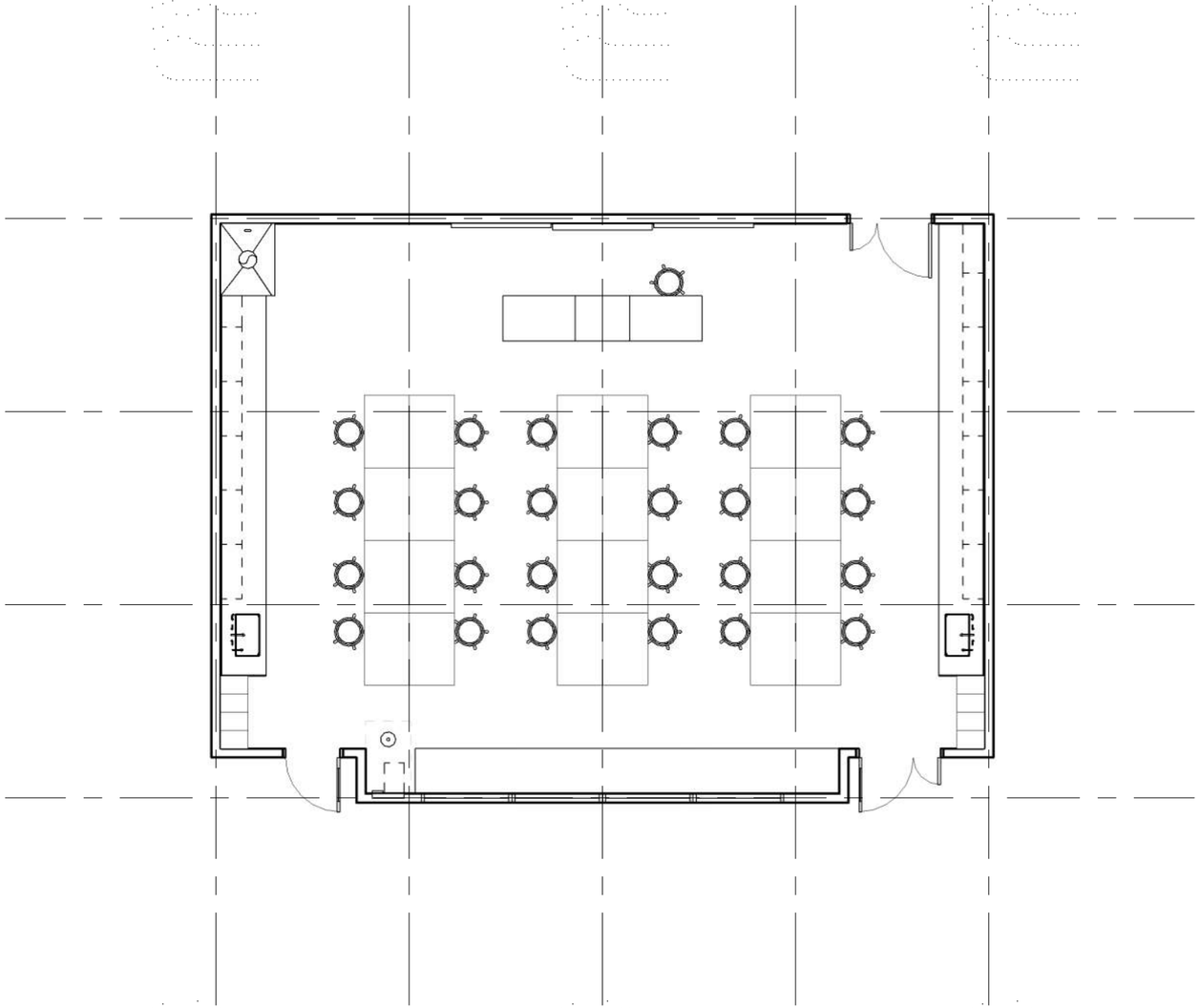

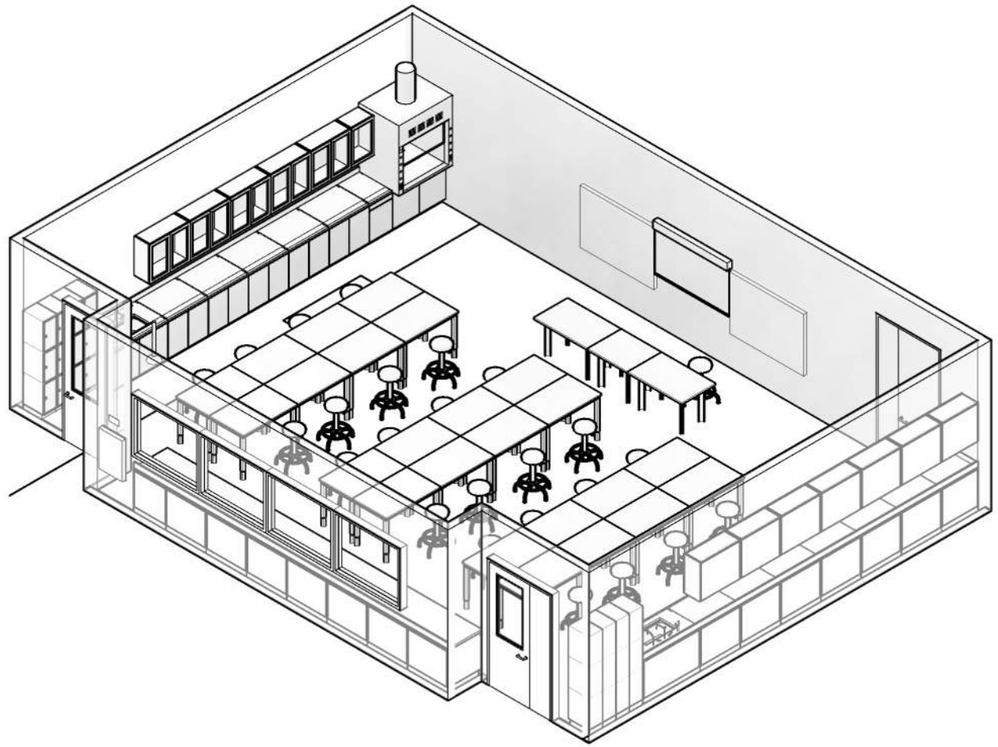

MATERIAL SCIENCE CAPSTONE

UWEC - 19J4E

TEACHING LAB 10

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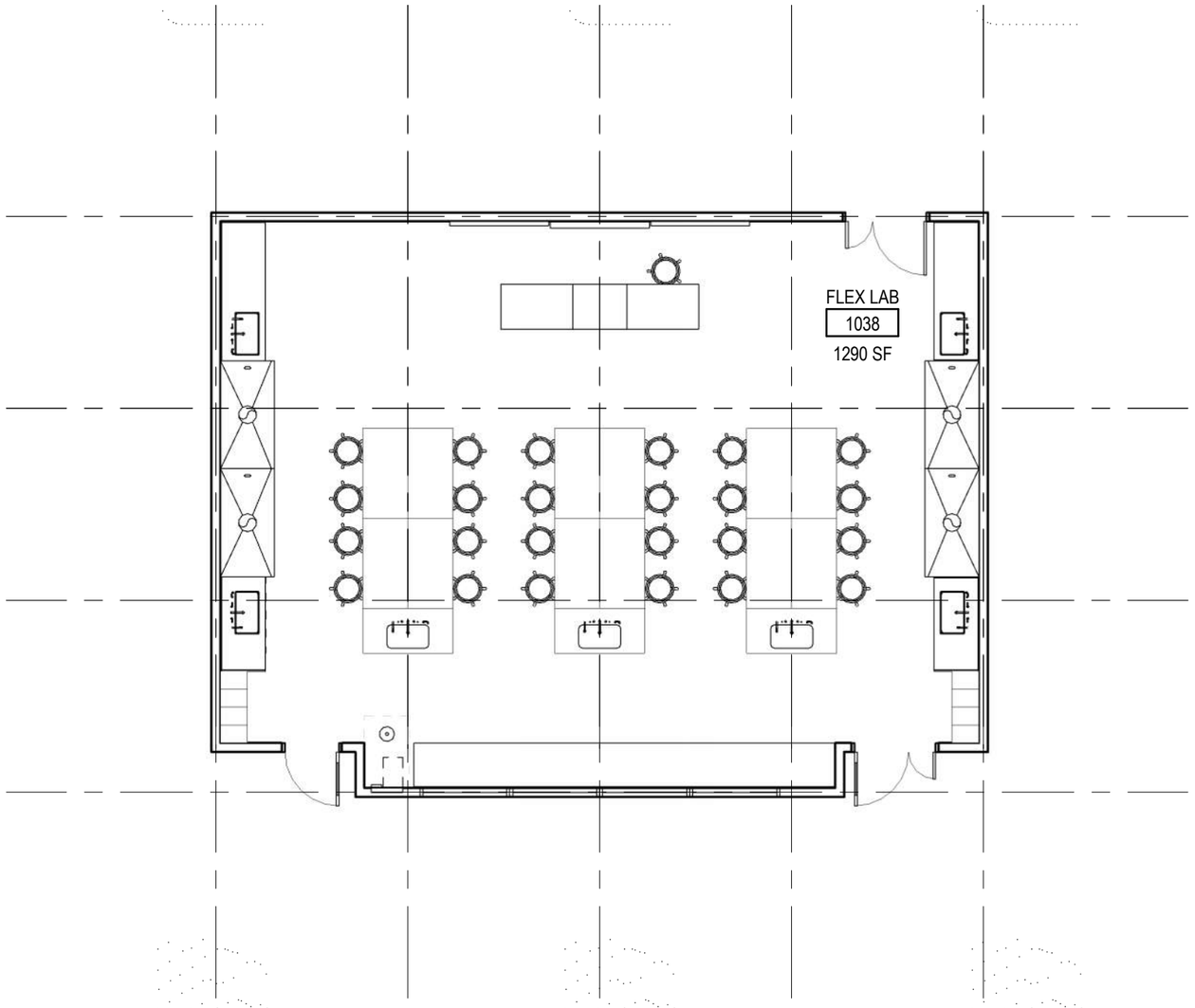
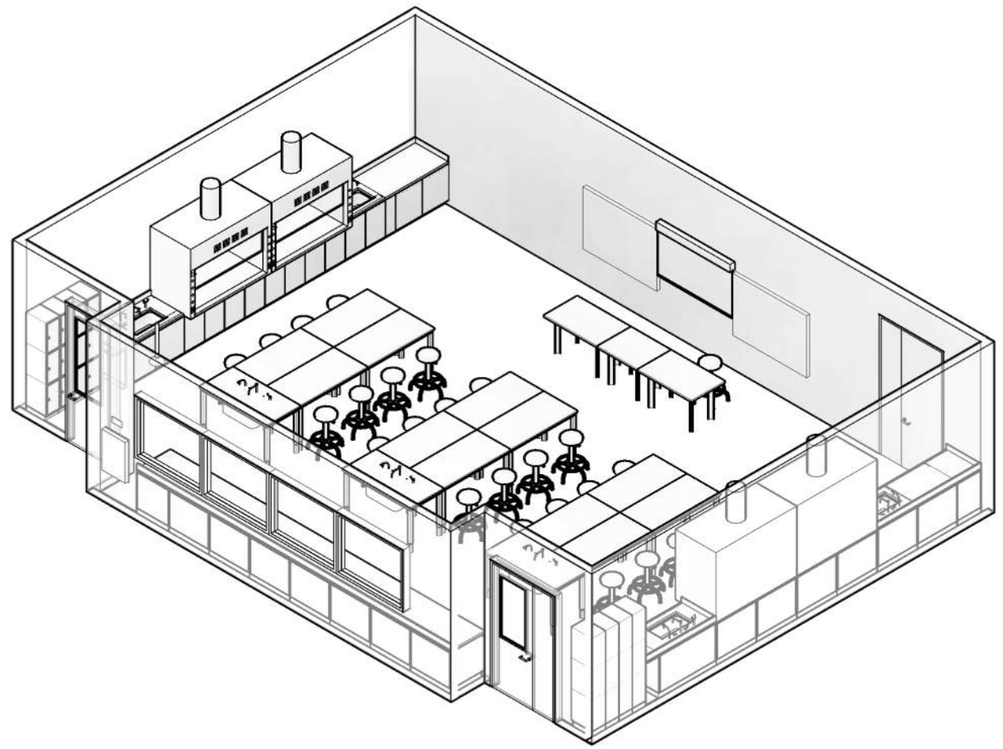
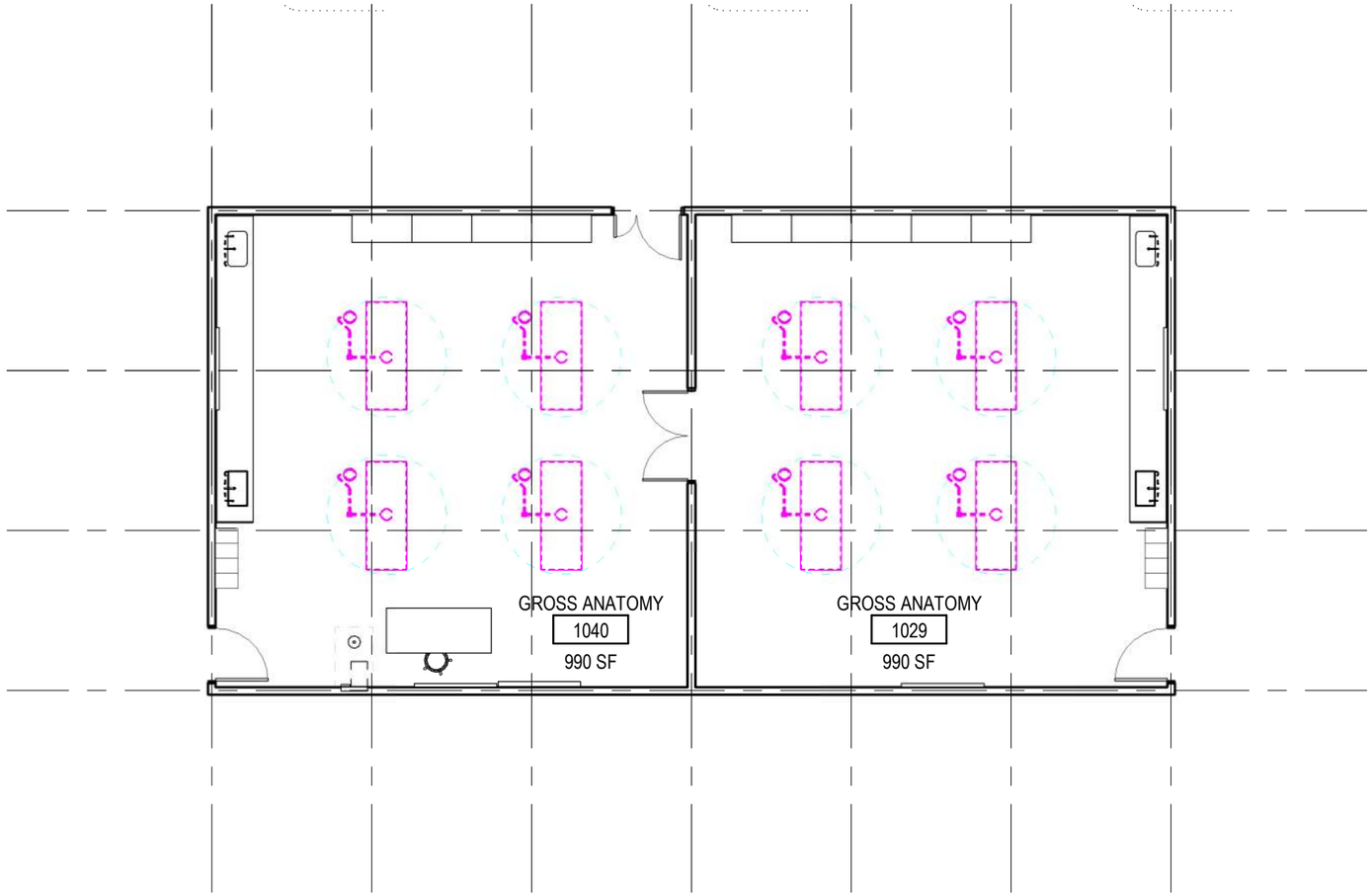
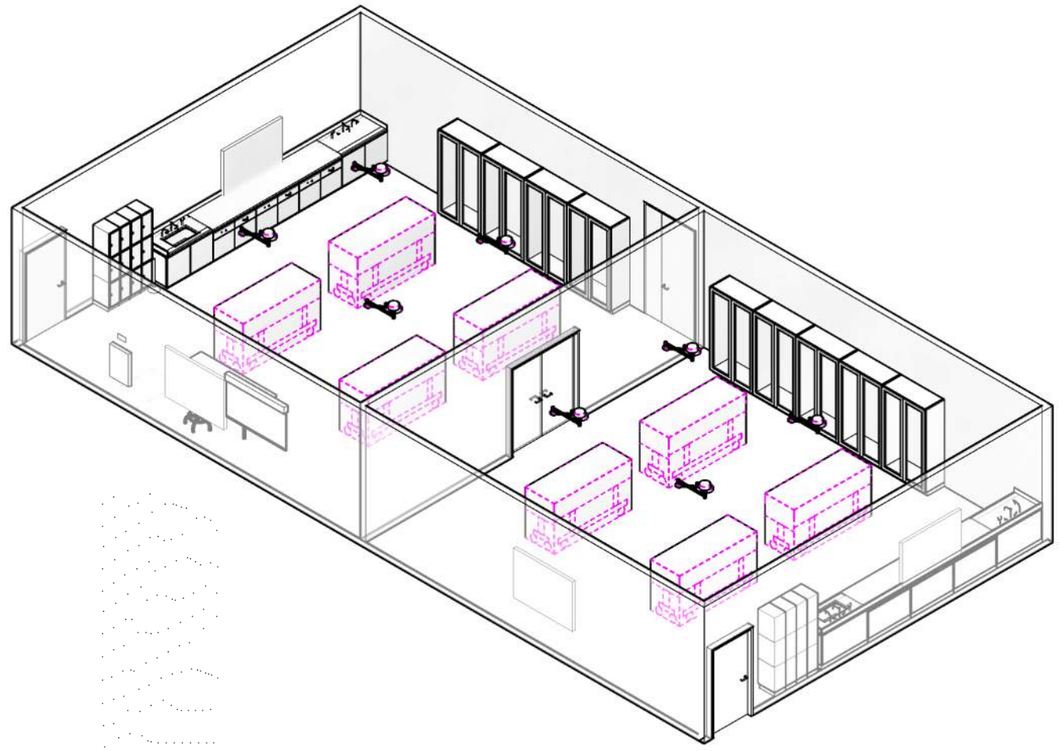




MATERIAL SCIENCE WET BENCH

UWEC - 19J4E





CADAVER LAB

UWEC - 19J4E

TEACHING LAB 14

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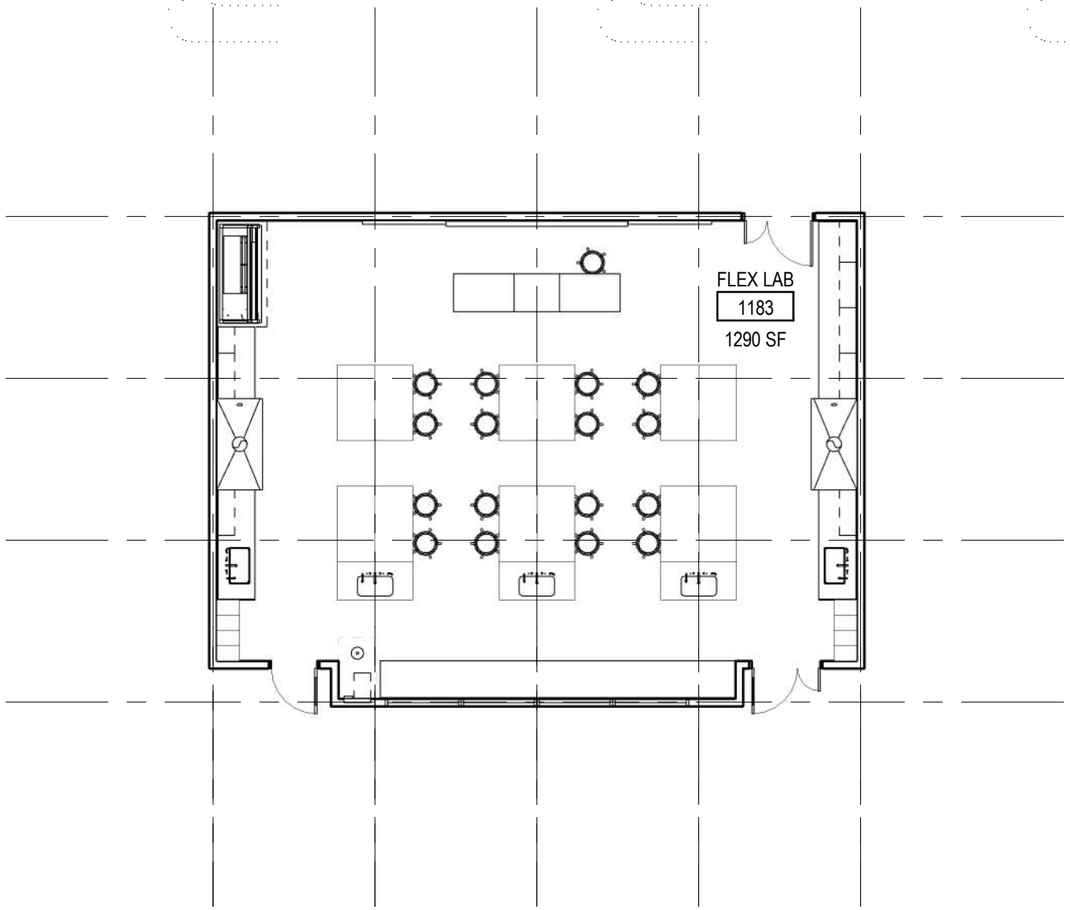

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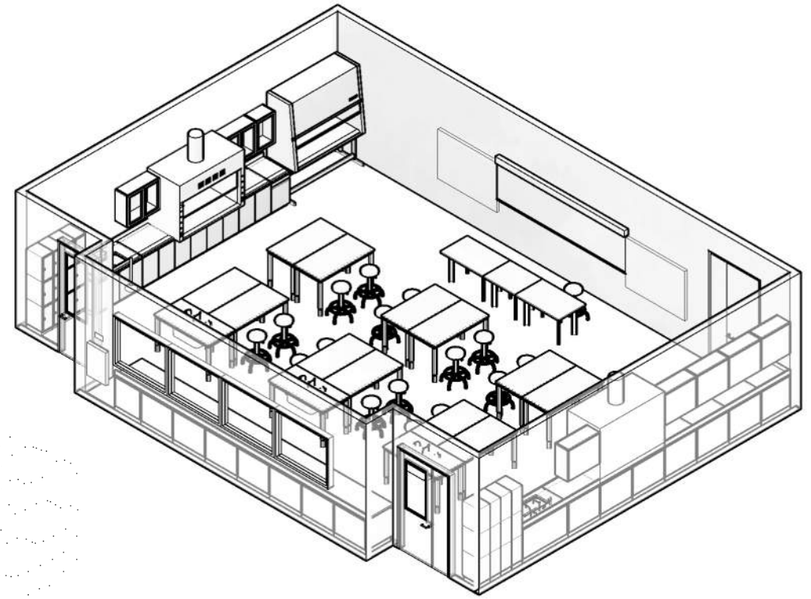

UWEC - 19J4E

TEACHING LAB 15

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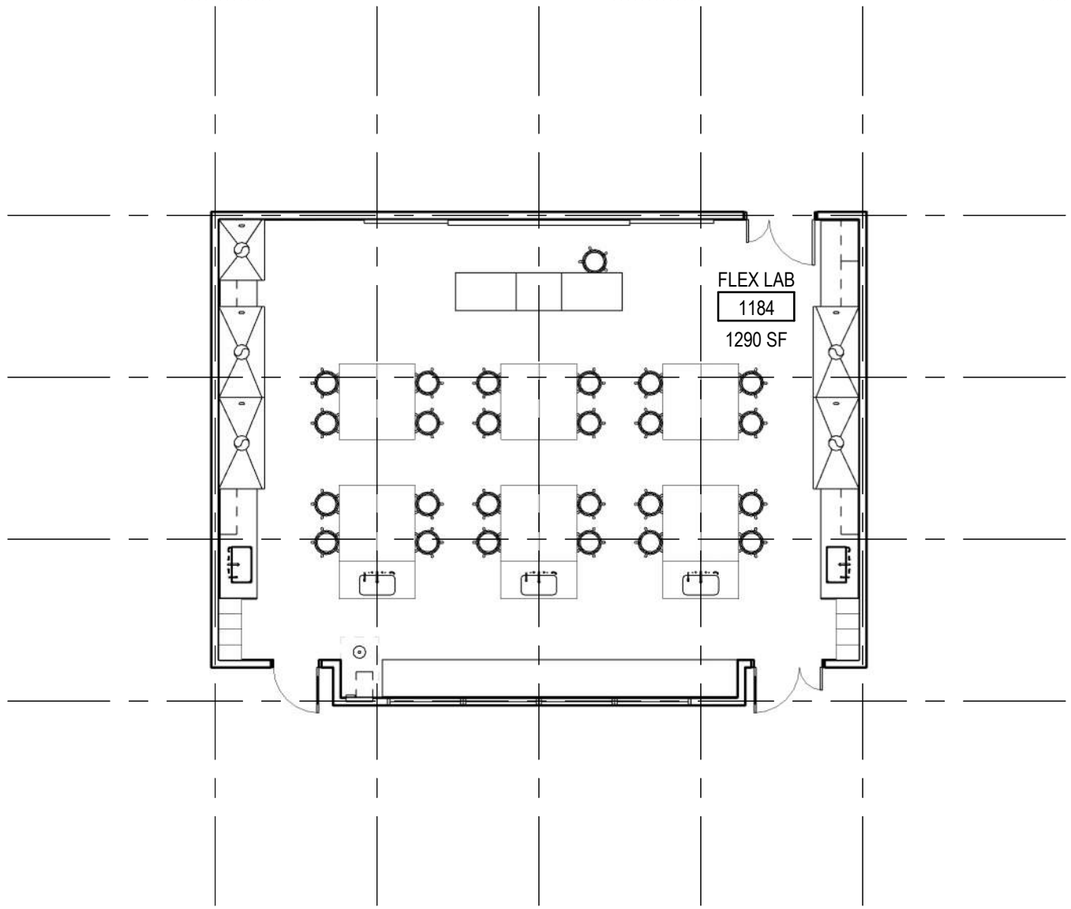
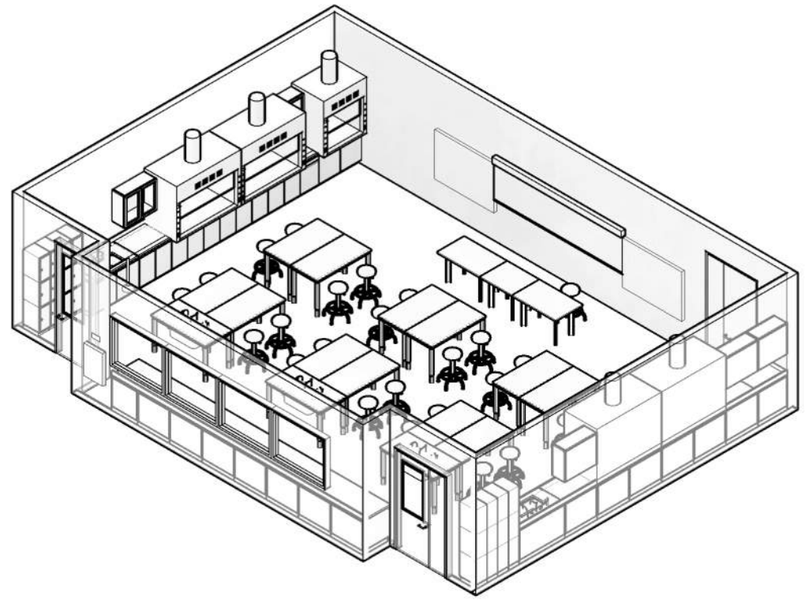


GENERAL CHEMISTRY 4

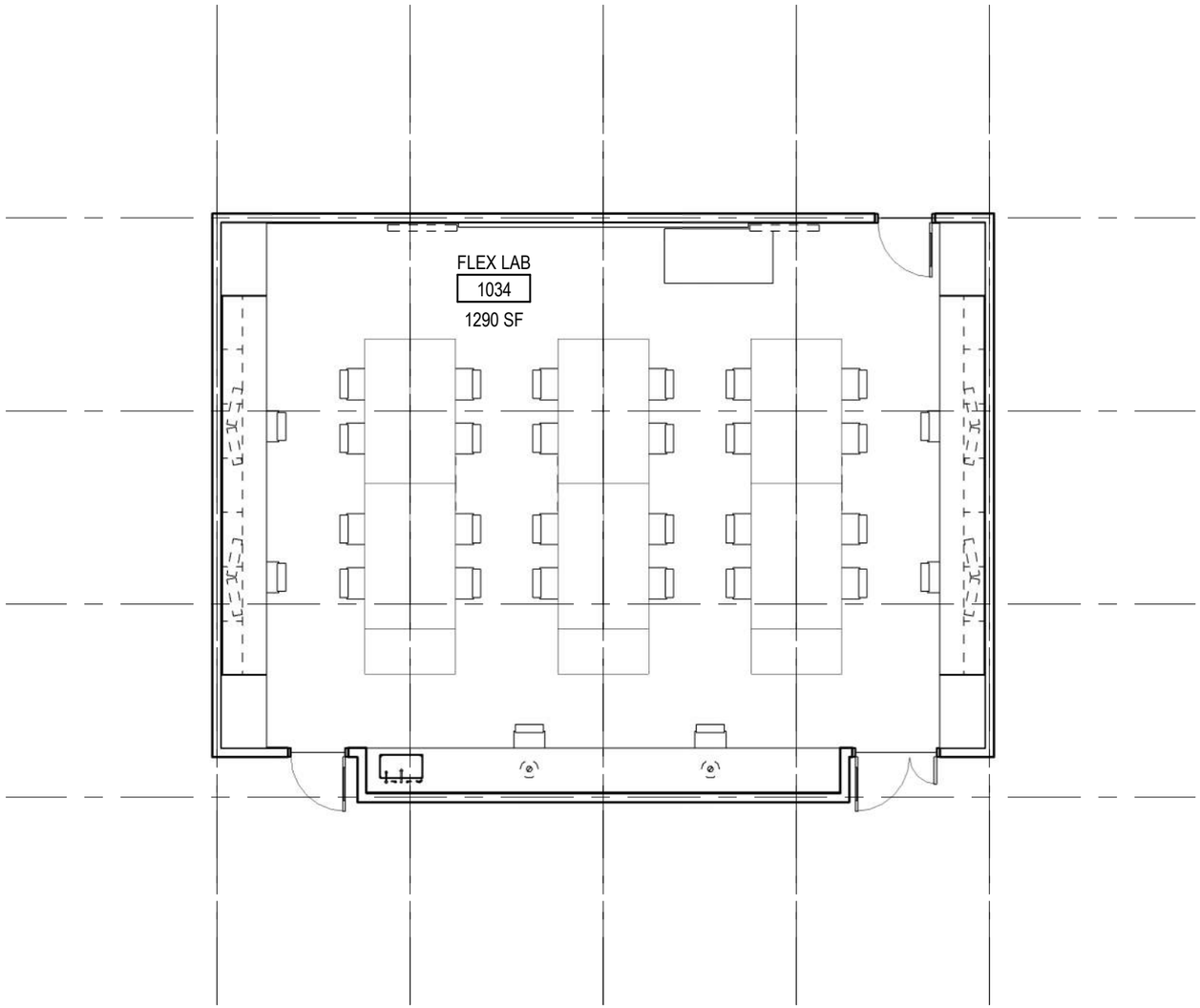


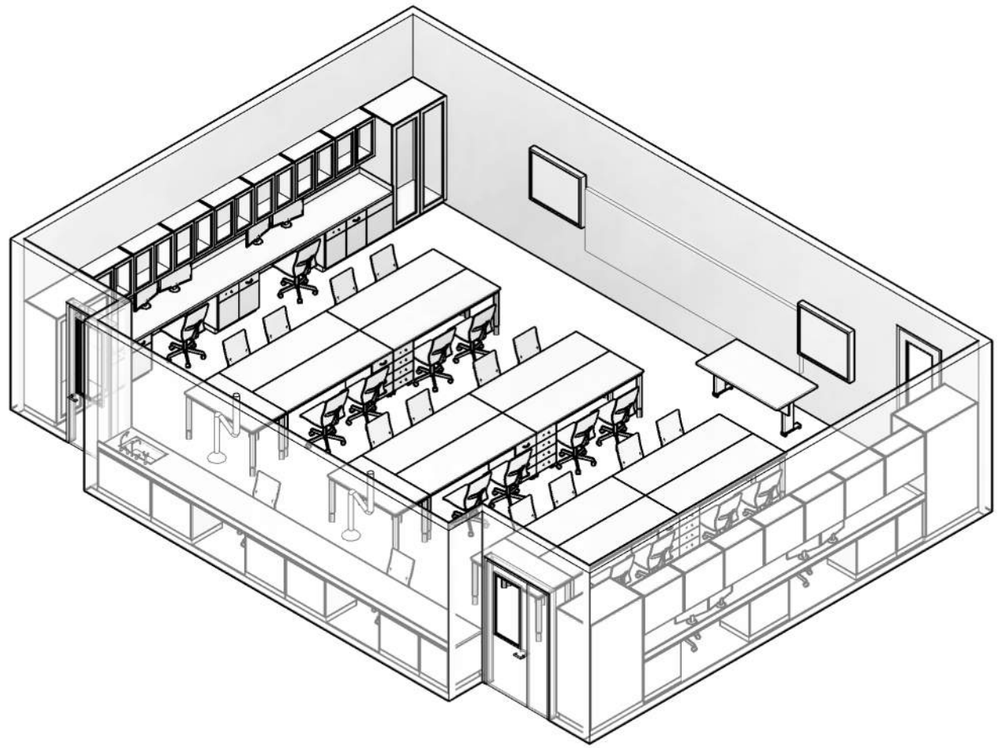
UWEC - 19J4E

TEACHING LAB 16

1/8" = 1'-0"

2021-05-11 5:37:43 PM





PHYSICS ELECTRONICS

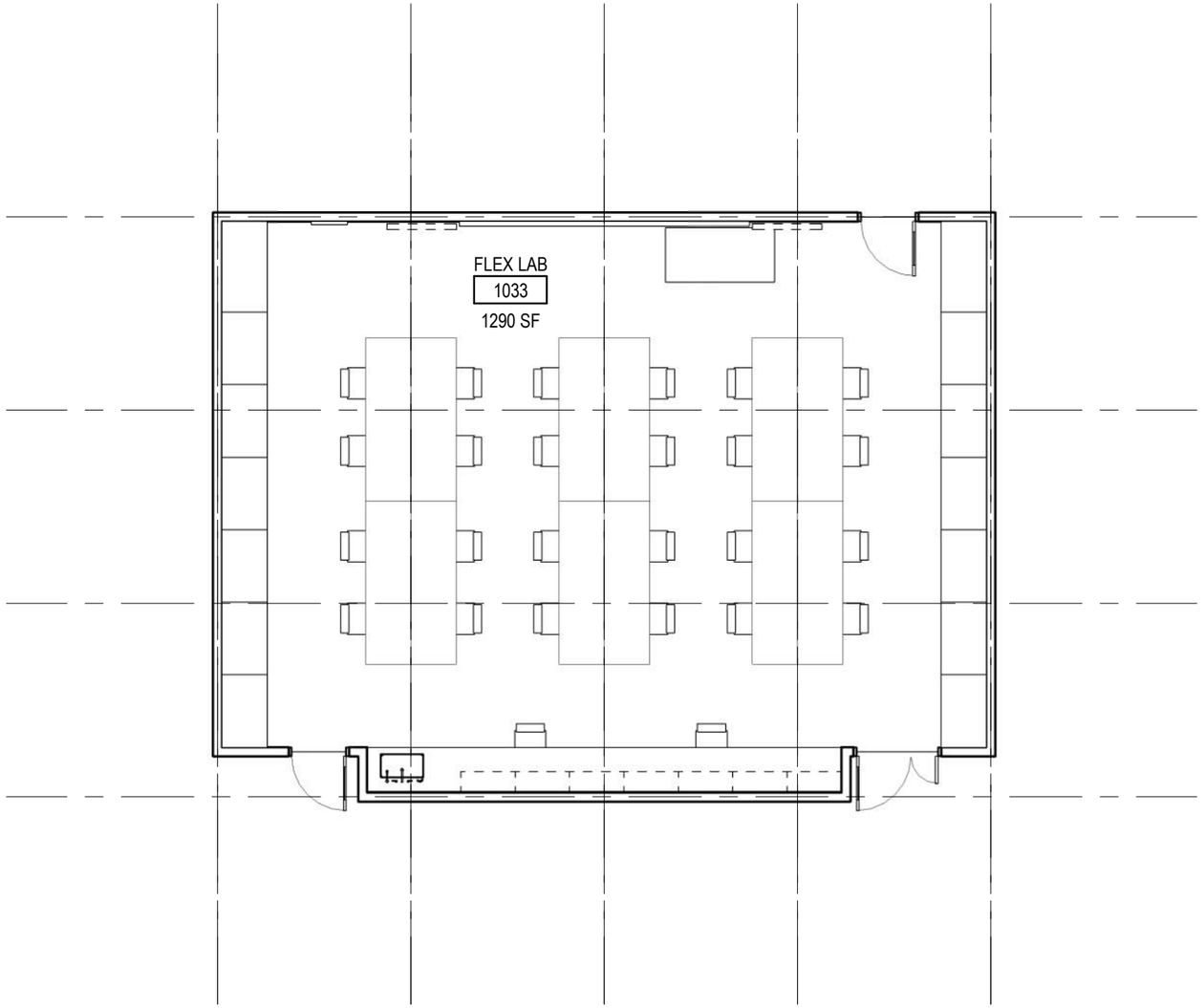
UWEC - 19J4E

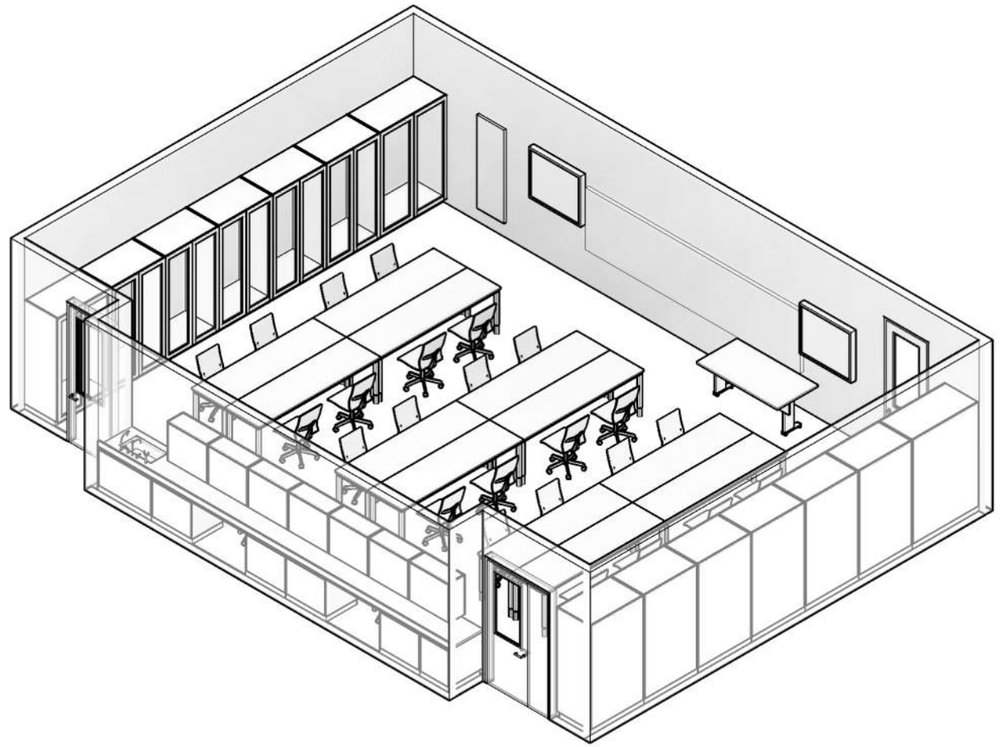
COMPUTER LAB 1

1/8" = 1'-0"

2021-05-11 5:37:47 PM

Potter Lawson
Success by Design





PHYSICS PHYSICAL SCIENCE

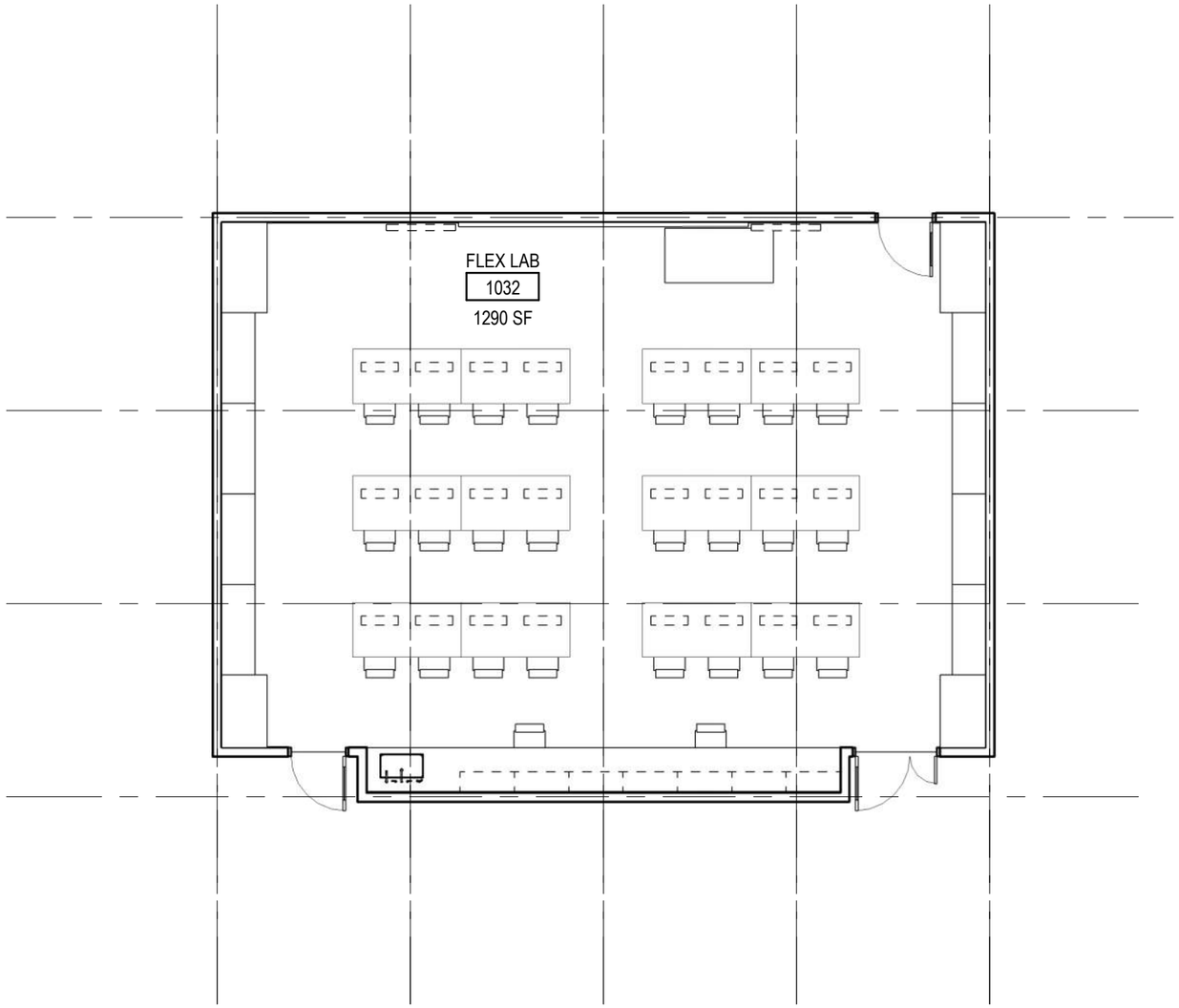
UWEC - 19J4E

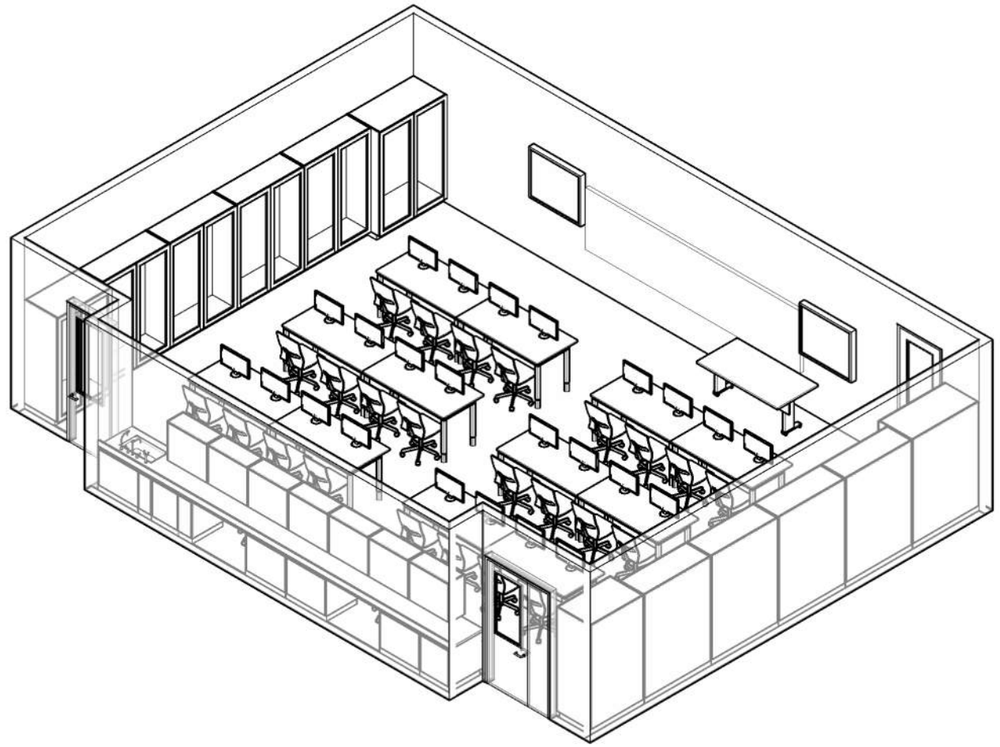
COMPUTER LAB 2

1/8" = 1'-0"

2021-05-11 5:37:49 PM

Potter Lawson
Success by Design





PHYSICS MECHANICS

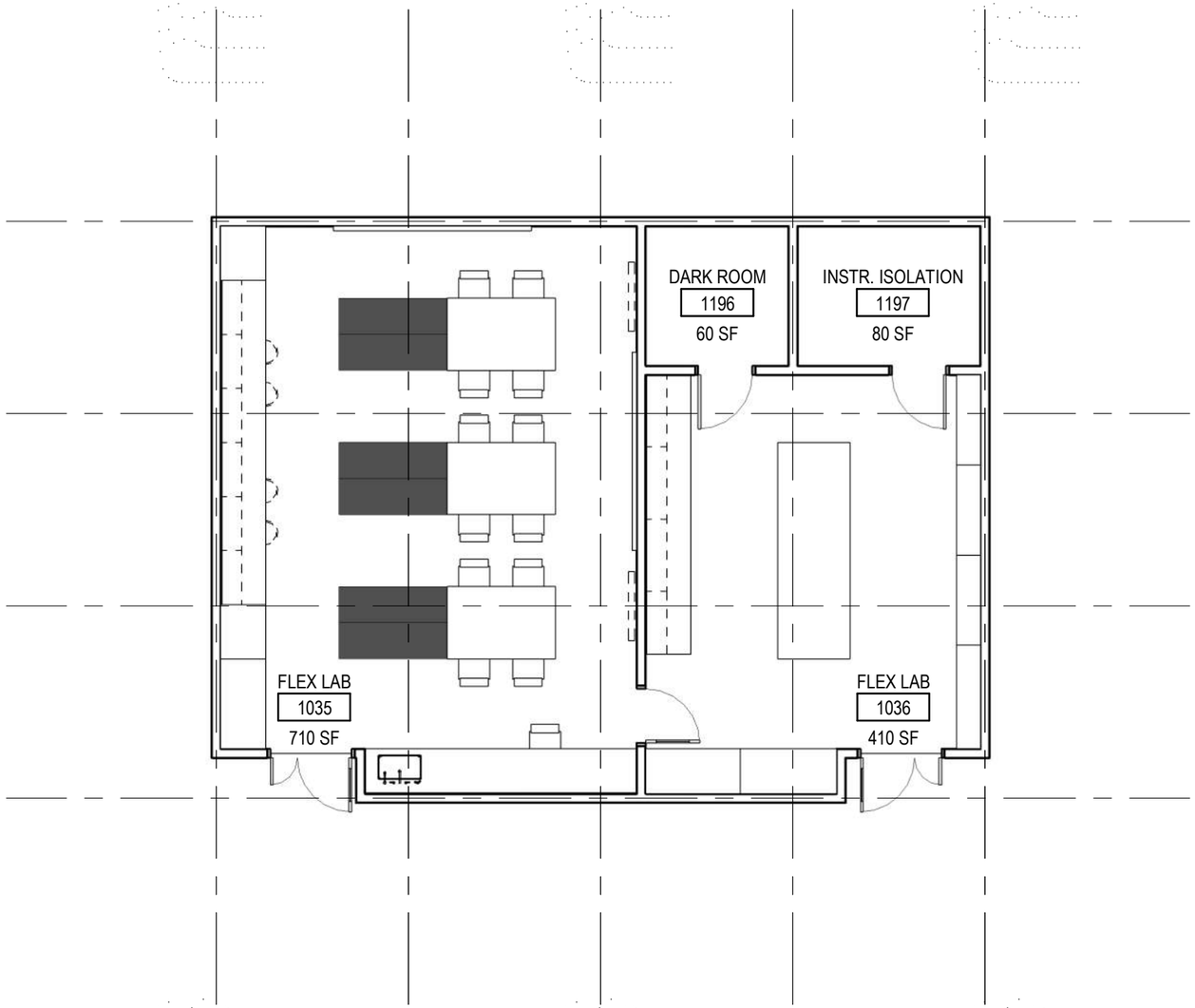
UWEC - 19J4E

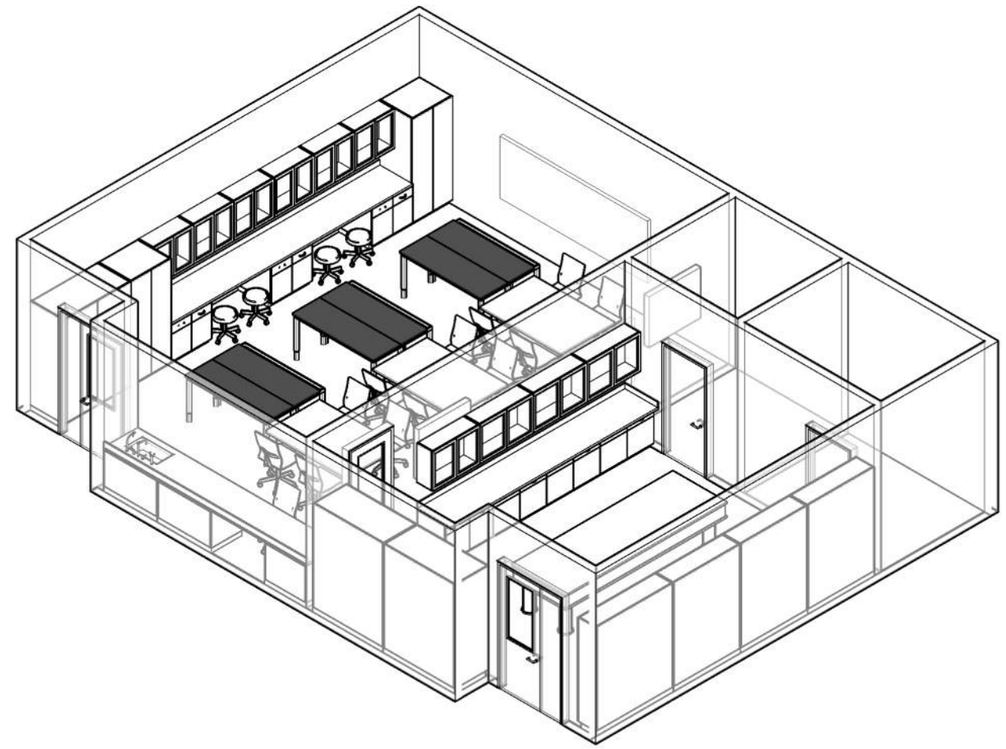
COMPUTER LAB 3

1/8" = 1'-0"

2021-05-11 5:37:51 PM

Potter Lawson
Success by Design





PHYSICS OPTICS

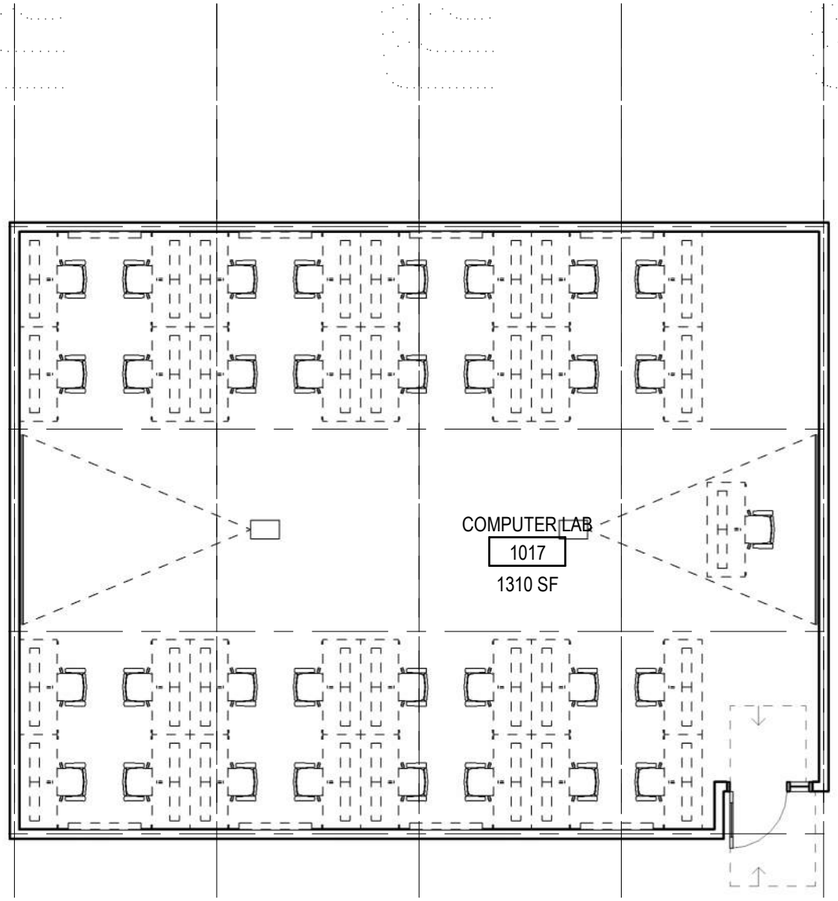
UWEC - 19J4E

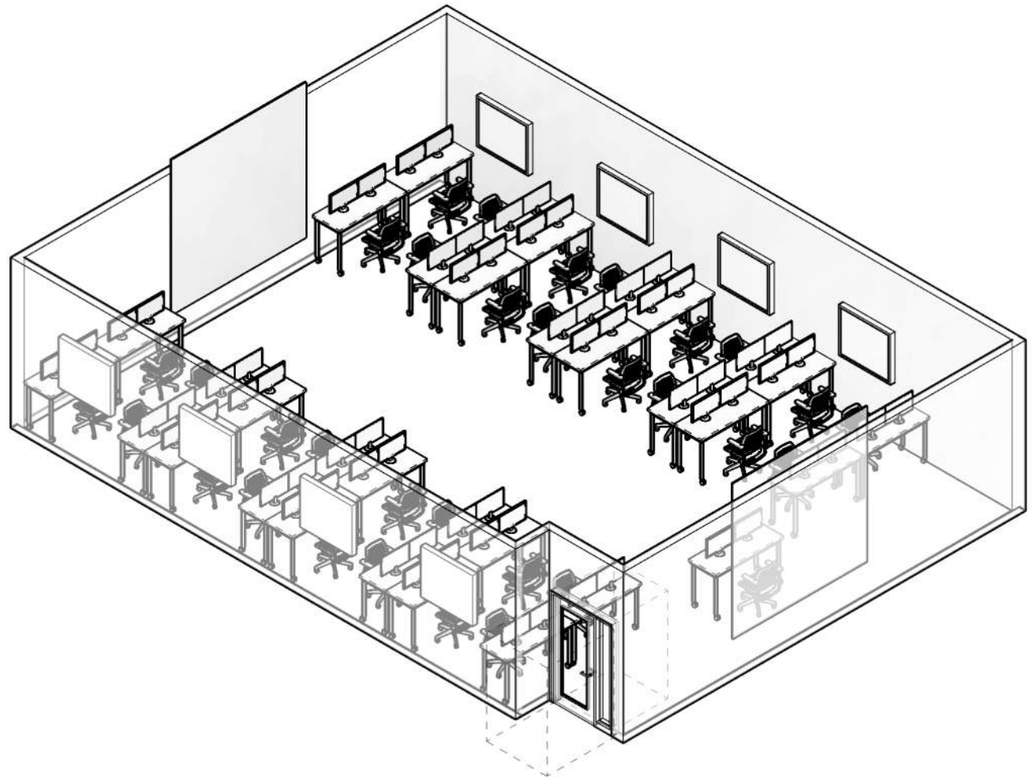
COMPUTER LAB 4

1/8" = 1'-0"

2021-05-11 5:37:53 PM

Potter Lawson
Success by Design





GENERAL

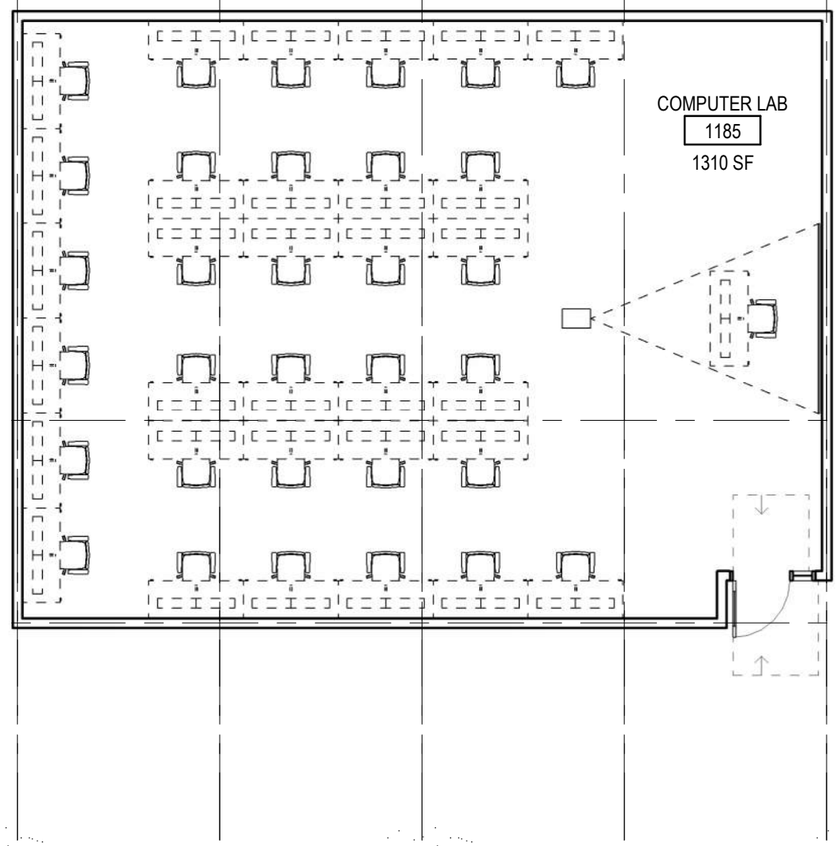
UWEC - 19J4E

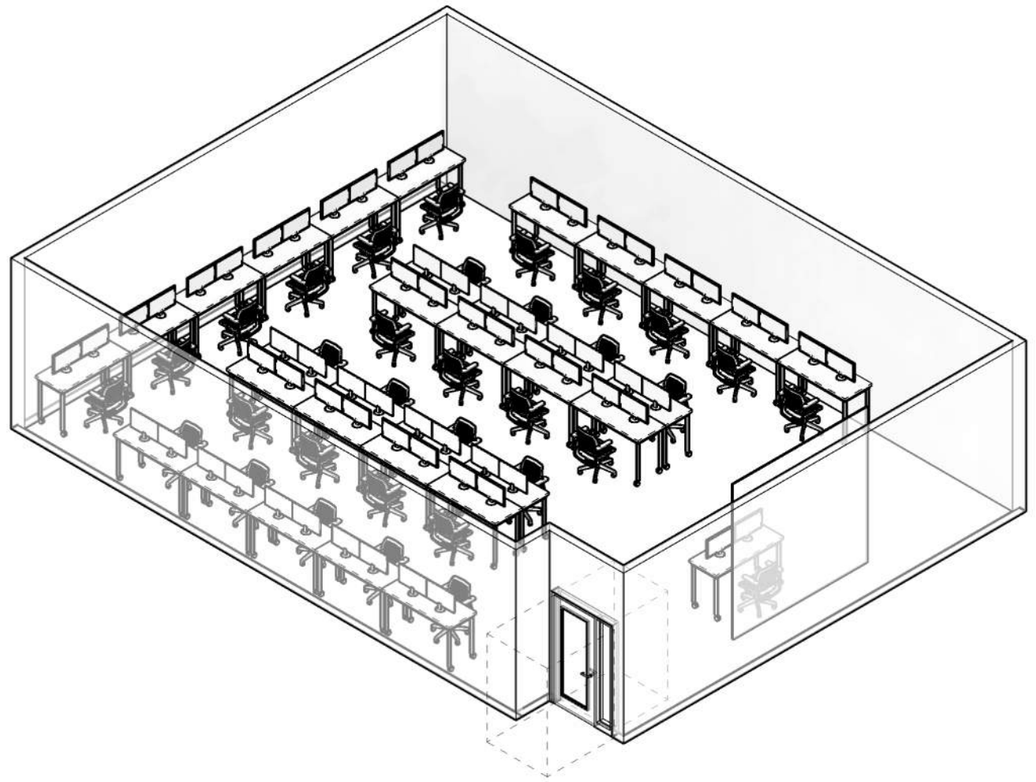
COMPUTER LAB 5

1/8" = 1'-0"

2021-05-11 5:37:57 PM

Potter Lawson
Success by Design





GEOGRAPHY

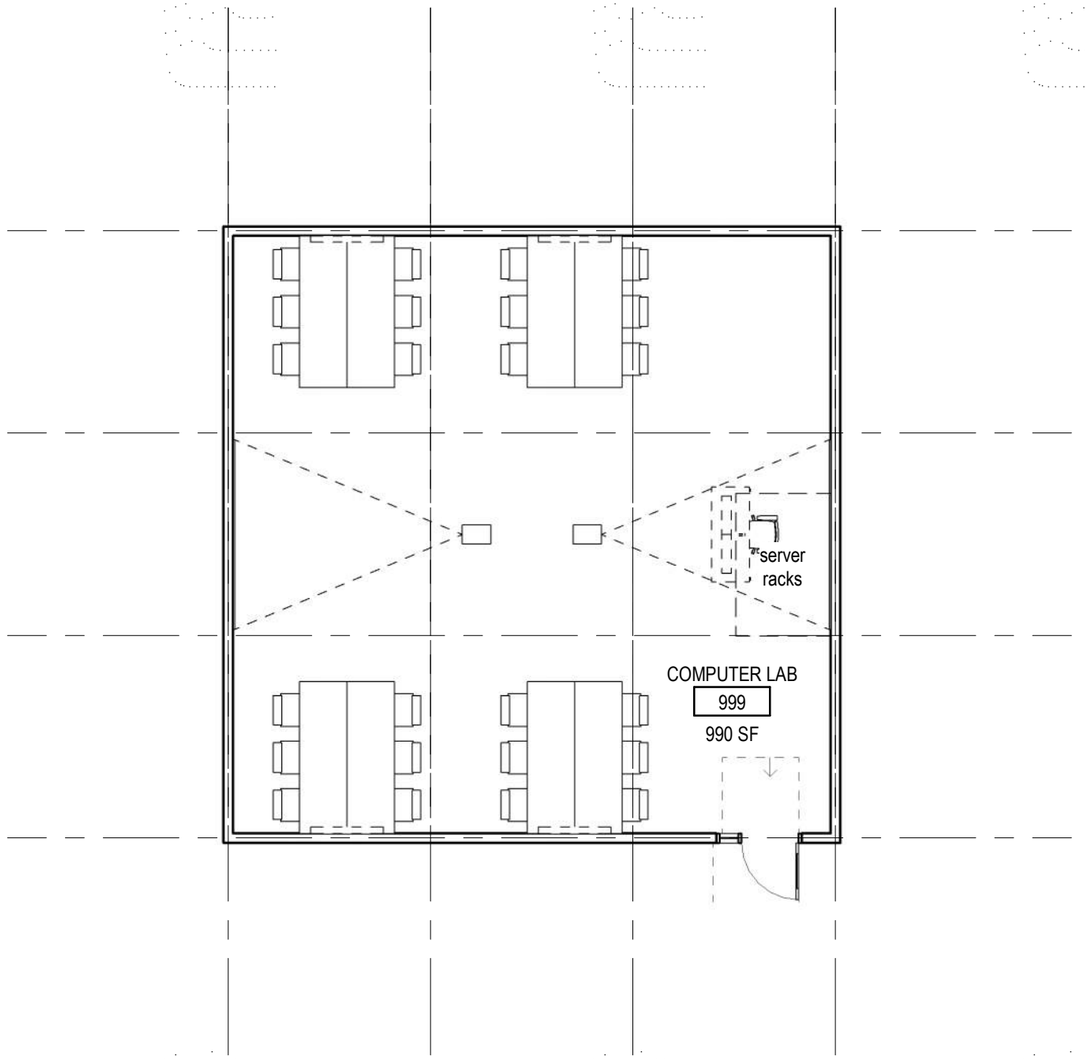
UWEC - 19J4E

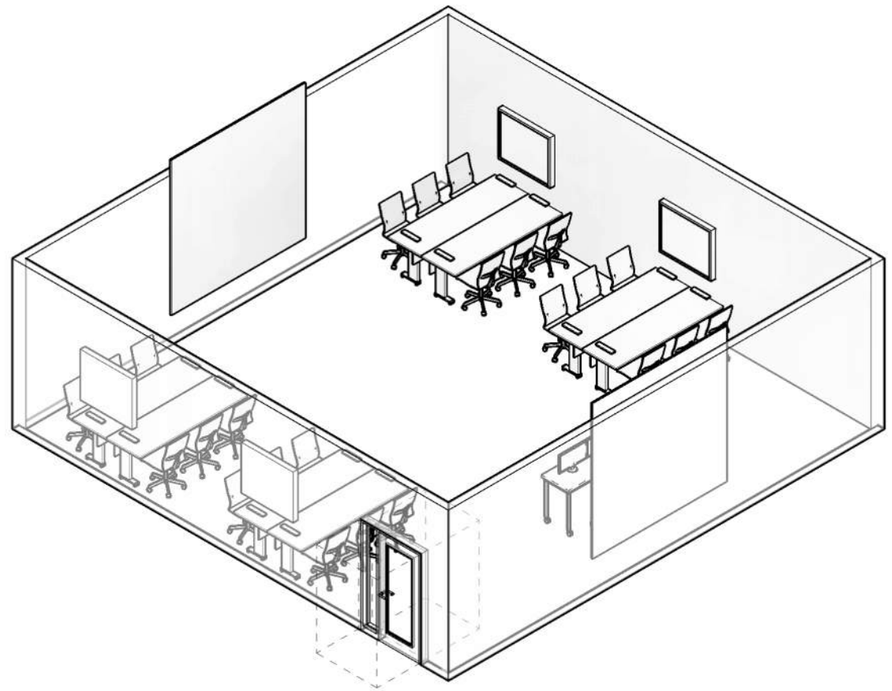
COMPUTER LAB 7

1/8" = 1'-0"

2021-05-11 5:38:05 PM

Potter Lawson
Success by Design





CYBER SECURITY

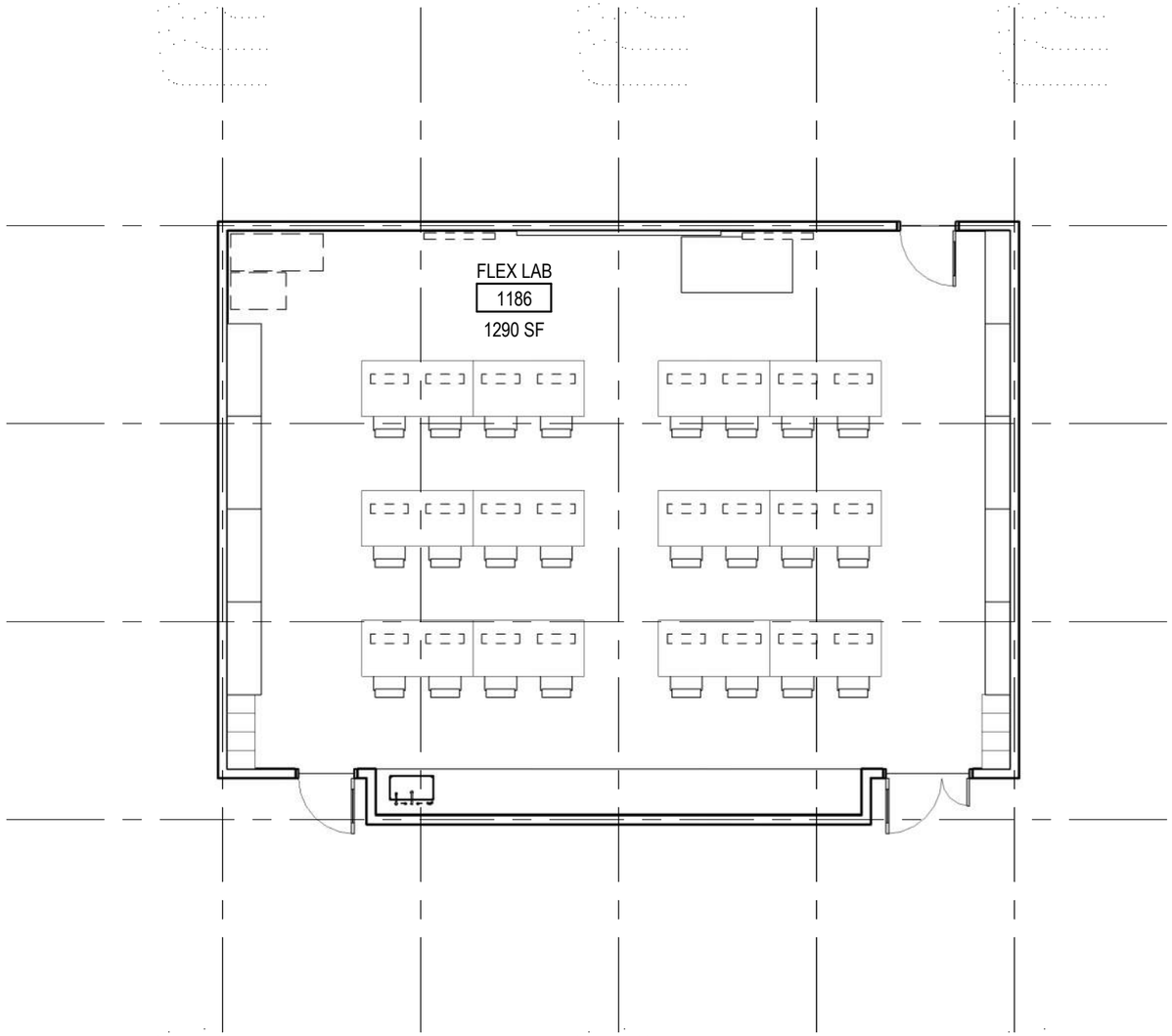
UWEC - 19J4E

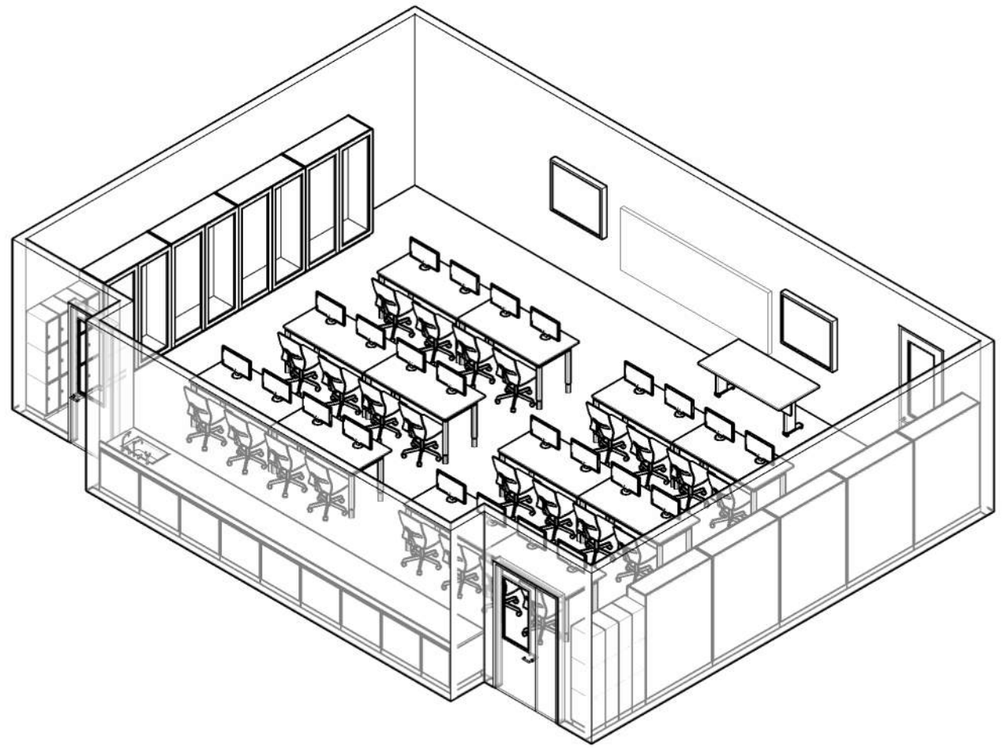
COMPUTER LAB 8

1/8" = 1'-0"

2021-05-11 5:38:07 PM

Potter Lawson
Success by Design





PHYSICS

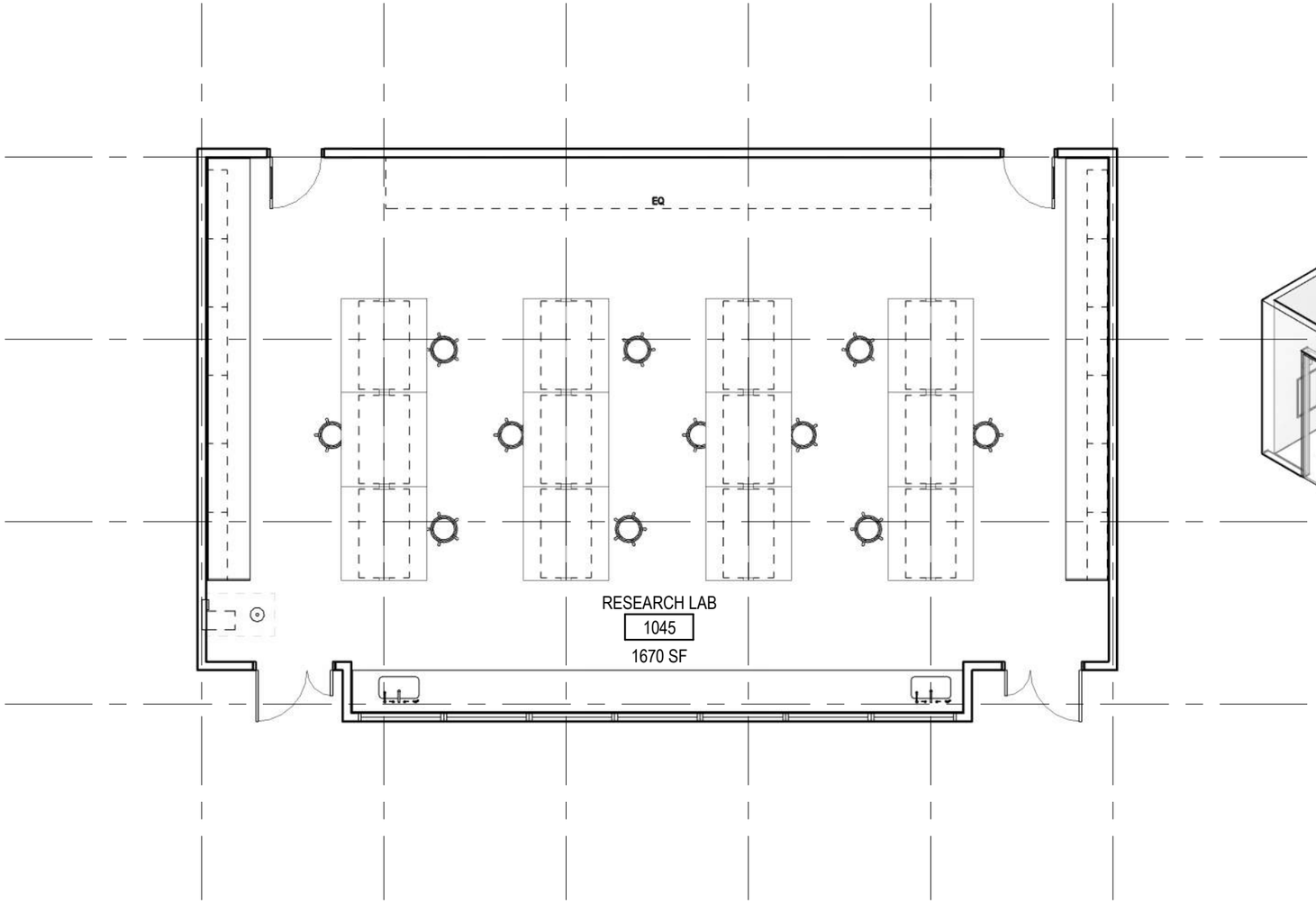
UWEC - 19J4E

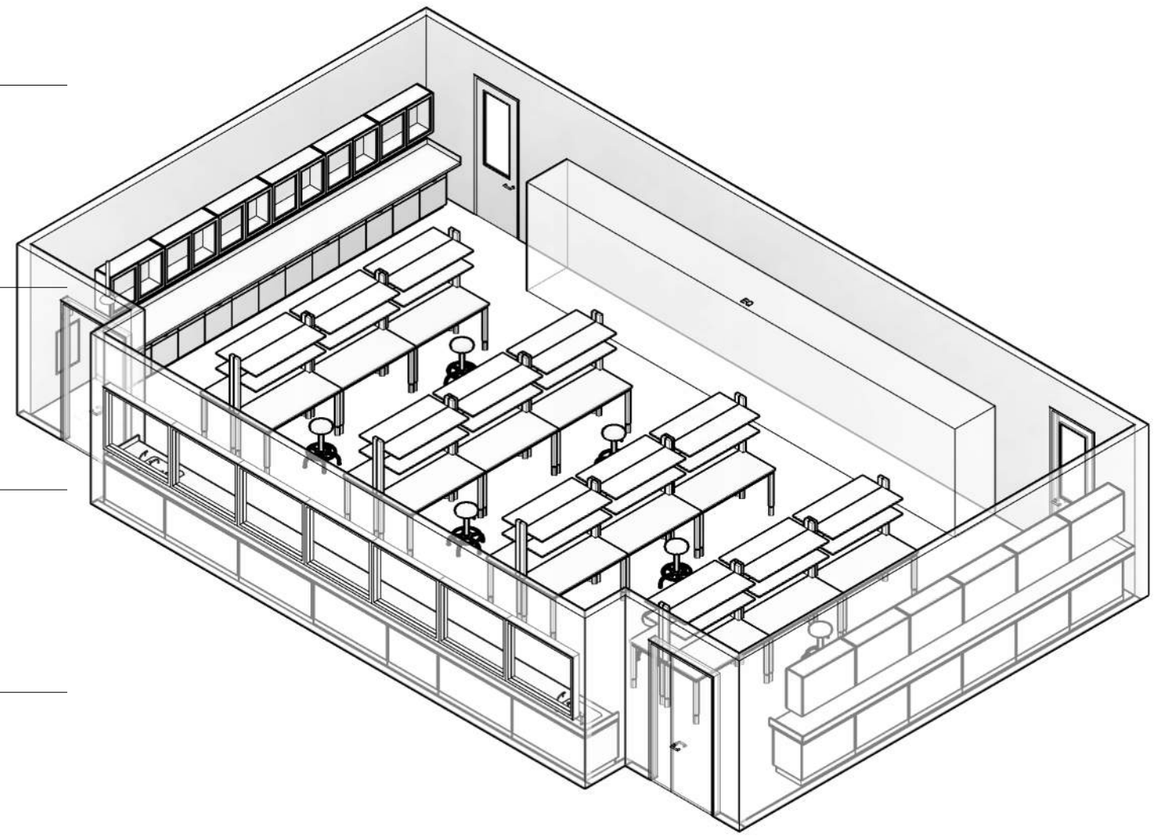
COMPUTER LAB 9

1/8" = 1'-0"

2021-05-11 5:38:10 PM

Potter Lawson
Success by Design





GENERAL - WET BENCH

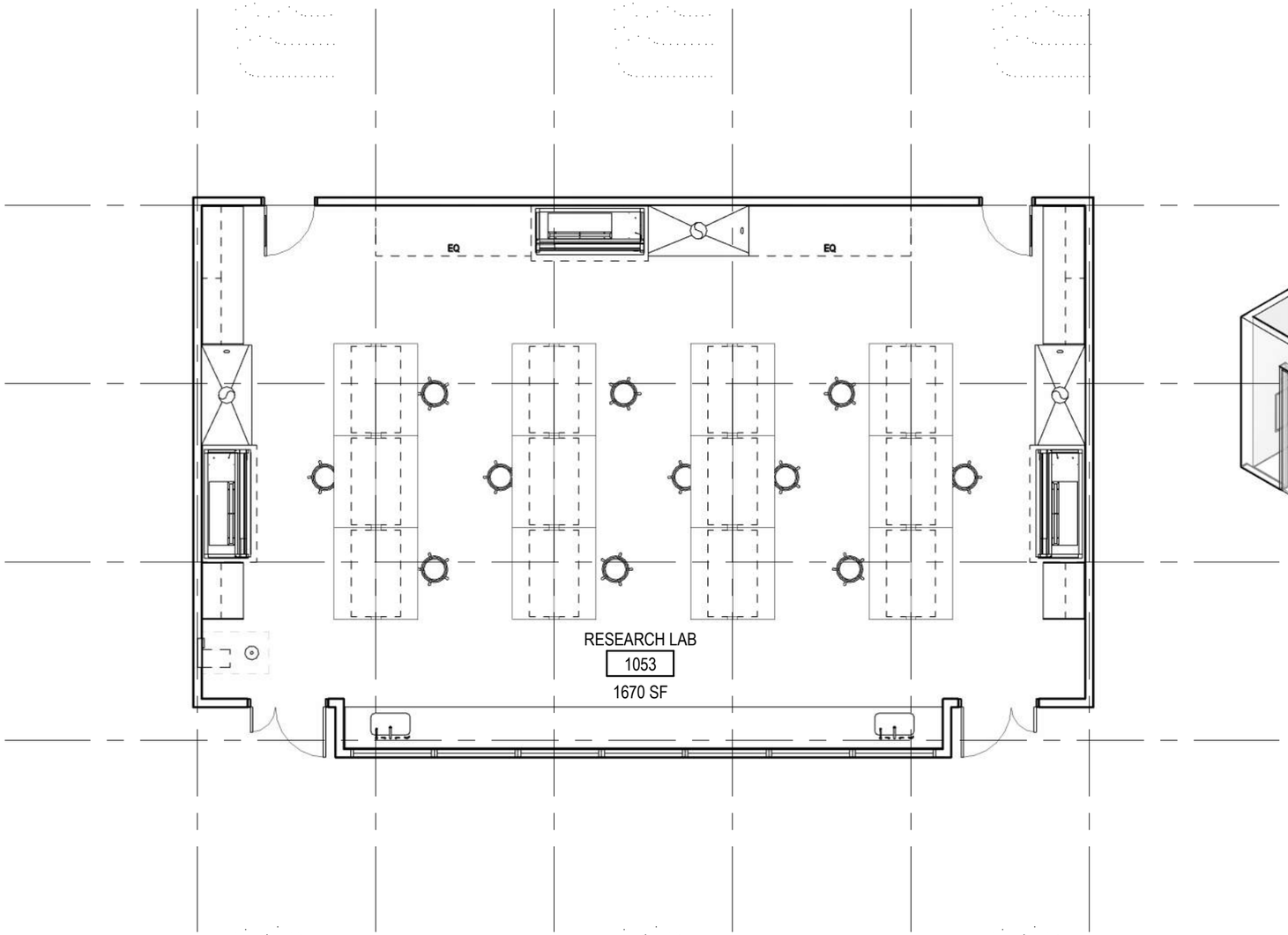
UWEC - 19J4E

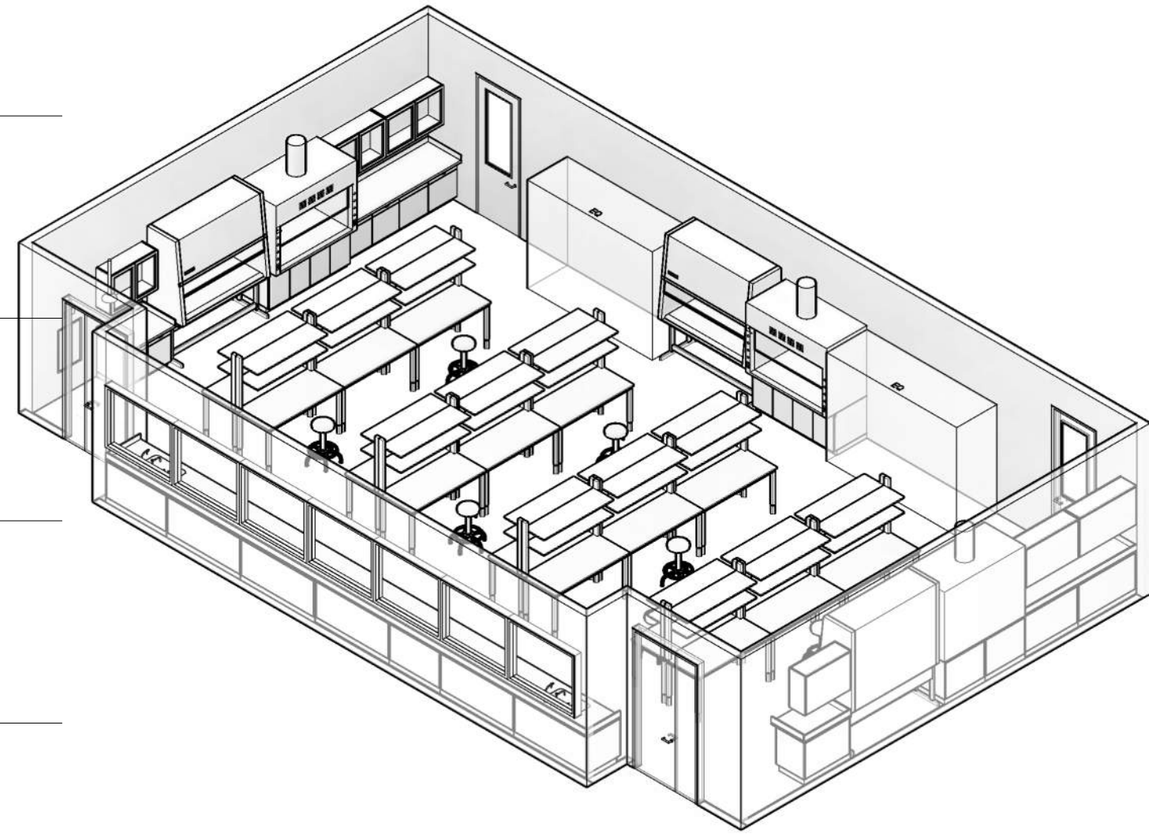
RESEARCH LAB 1

1/8" = 1'-0"

2021-05-11 5:38:13 PM

Potter Lawson
Success by Design





BIOCHEMISTRY

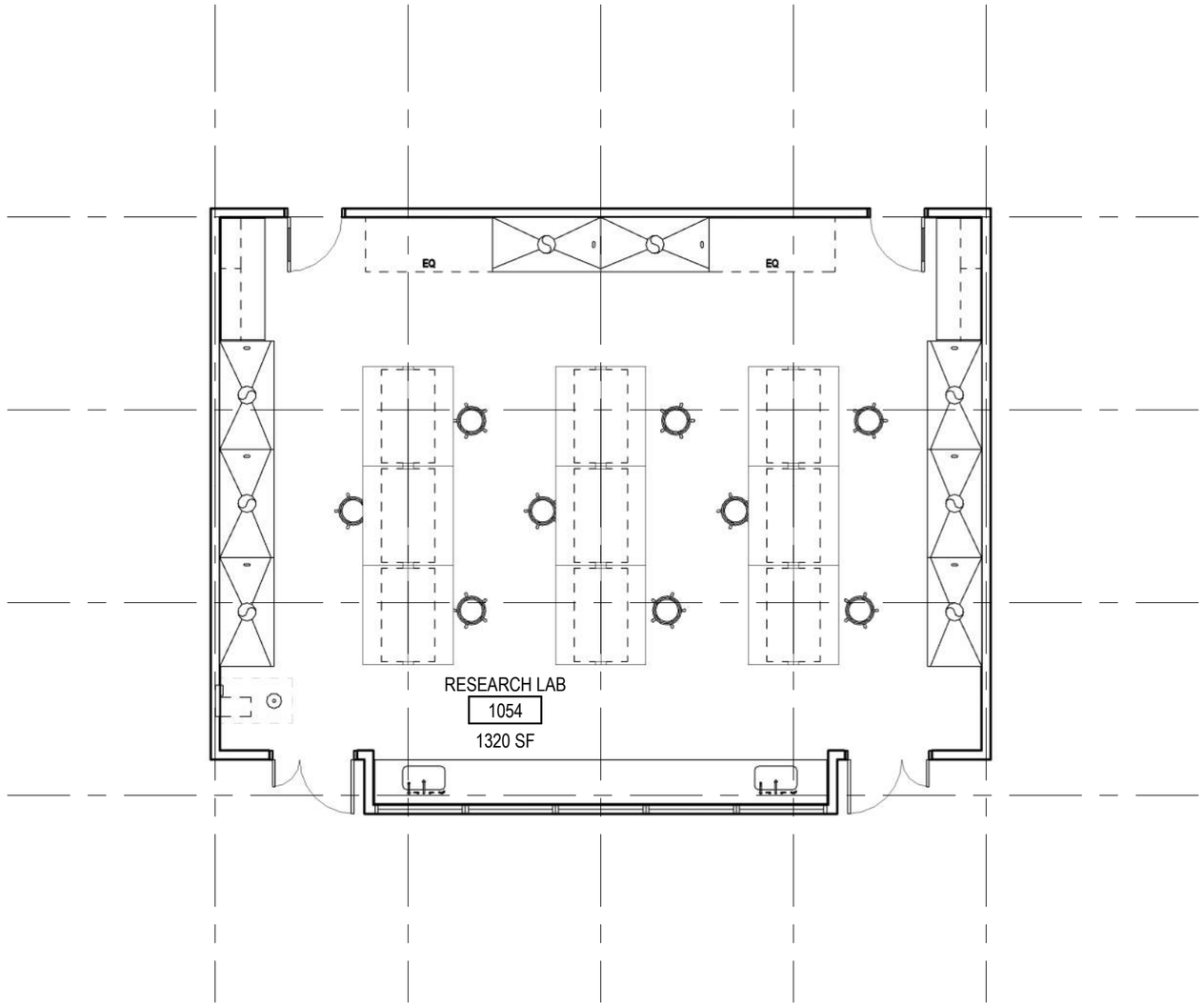
UWEC - 19J4E

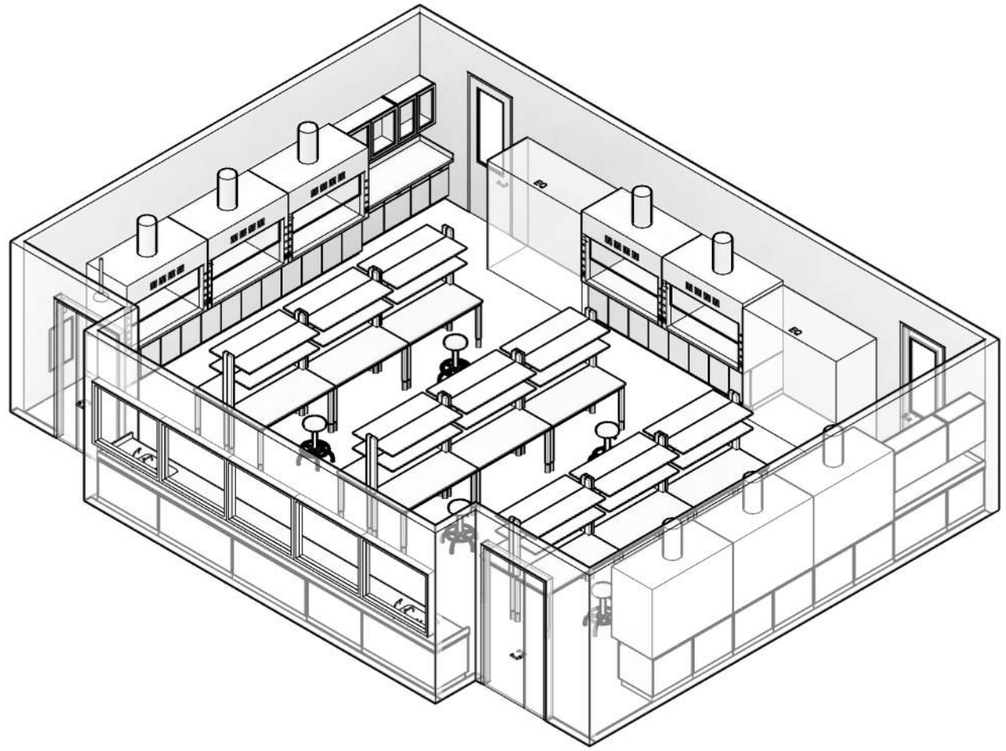
RESEARCH LAB 2

1/8" = 1'-0"

2021-05-11 5:38:15 PM

Potter Lawson
Success by Design





SYNTHETIC CHEMISTRY

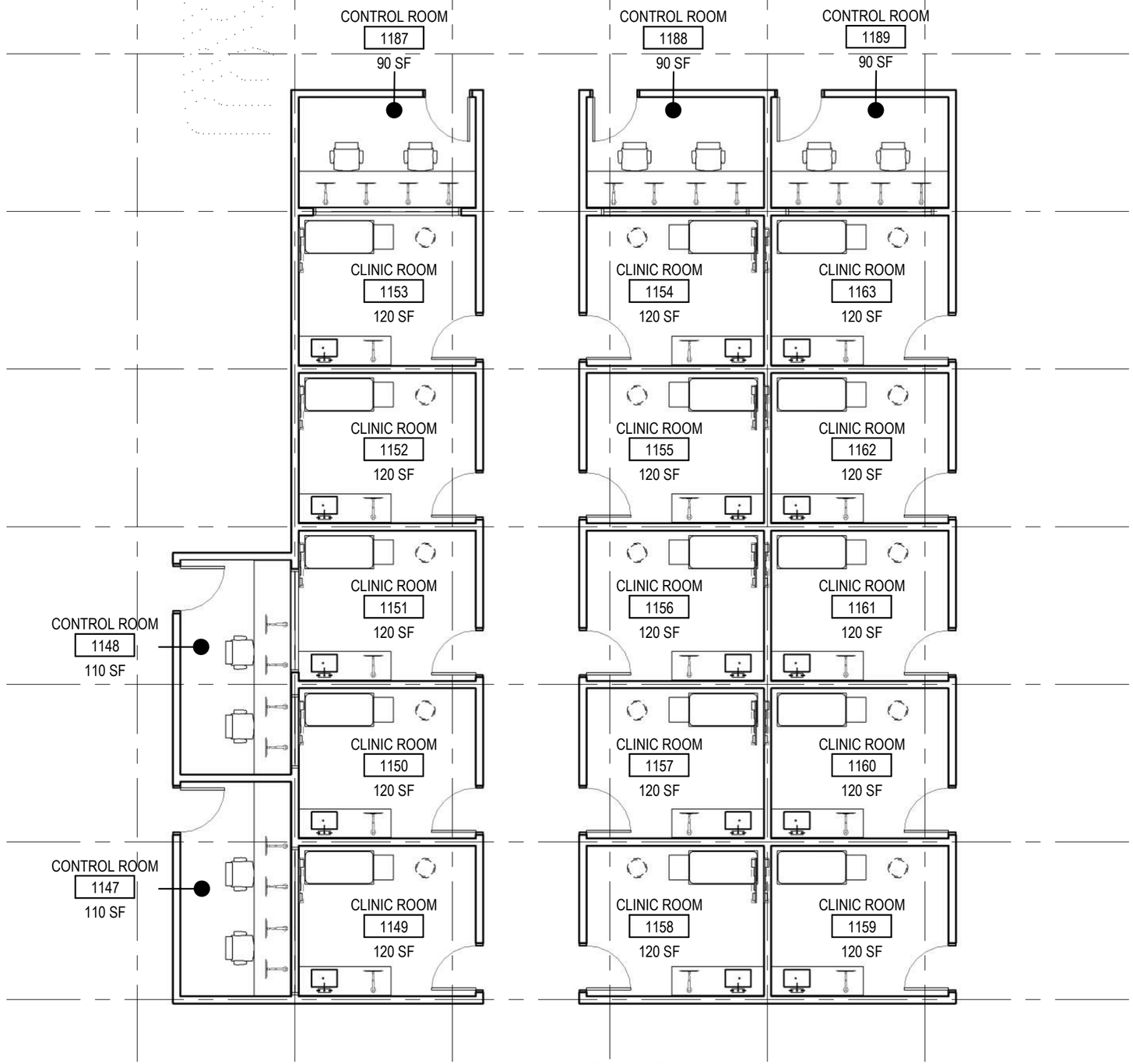
UWEC - 19J4E

RESEARCH LAB 3

1/8" = 1'-0"

2021-05-11 5:38:18 PM

Potter Lawson
Success by Design

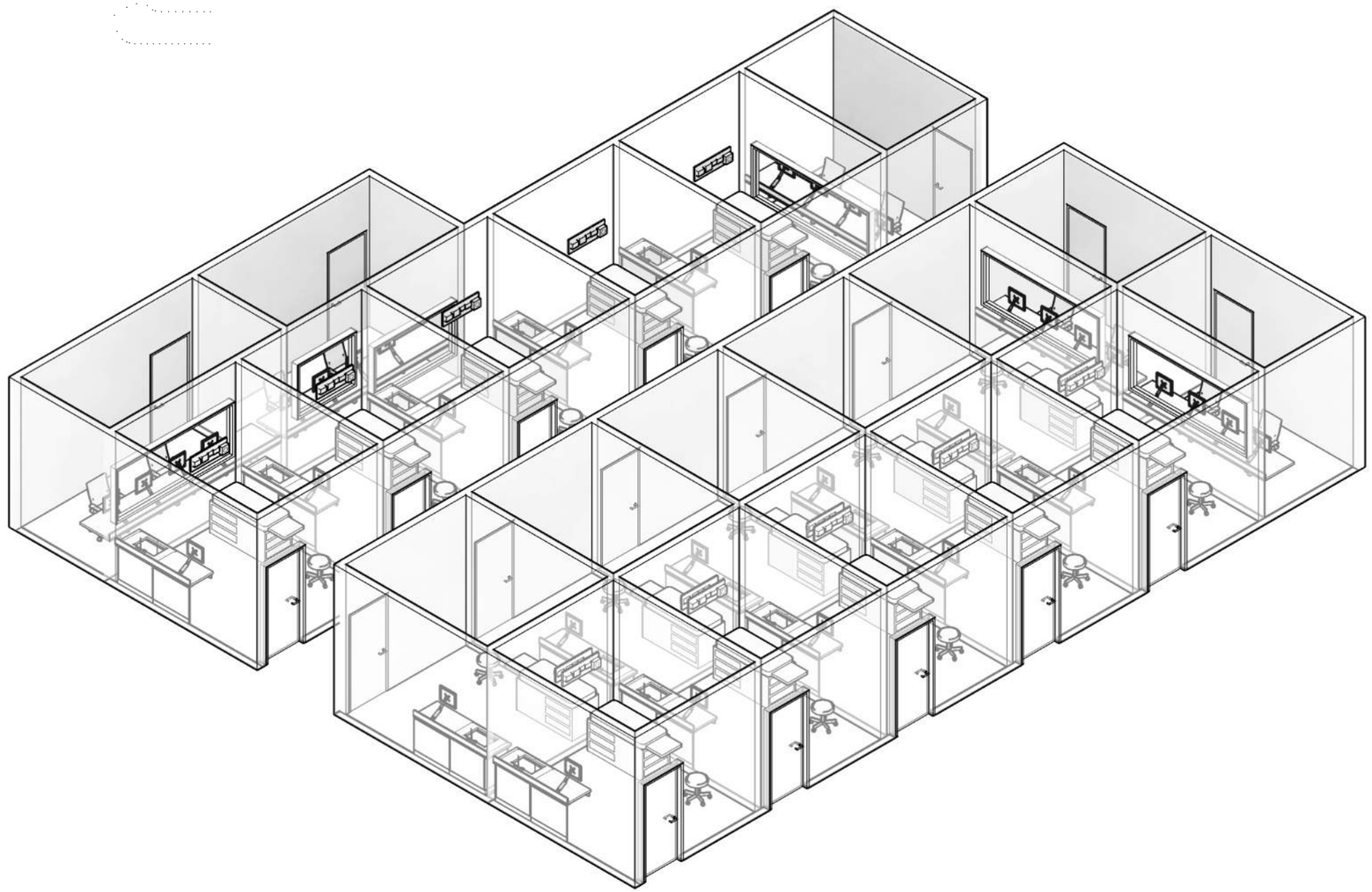


UWEC - 19J4E

NURSING CLINIC PLAN

1/8" = 1'-0"

2021-05-11 5:39:05 PM

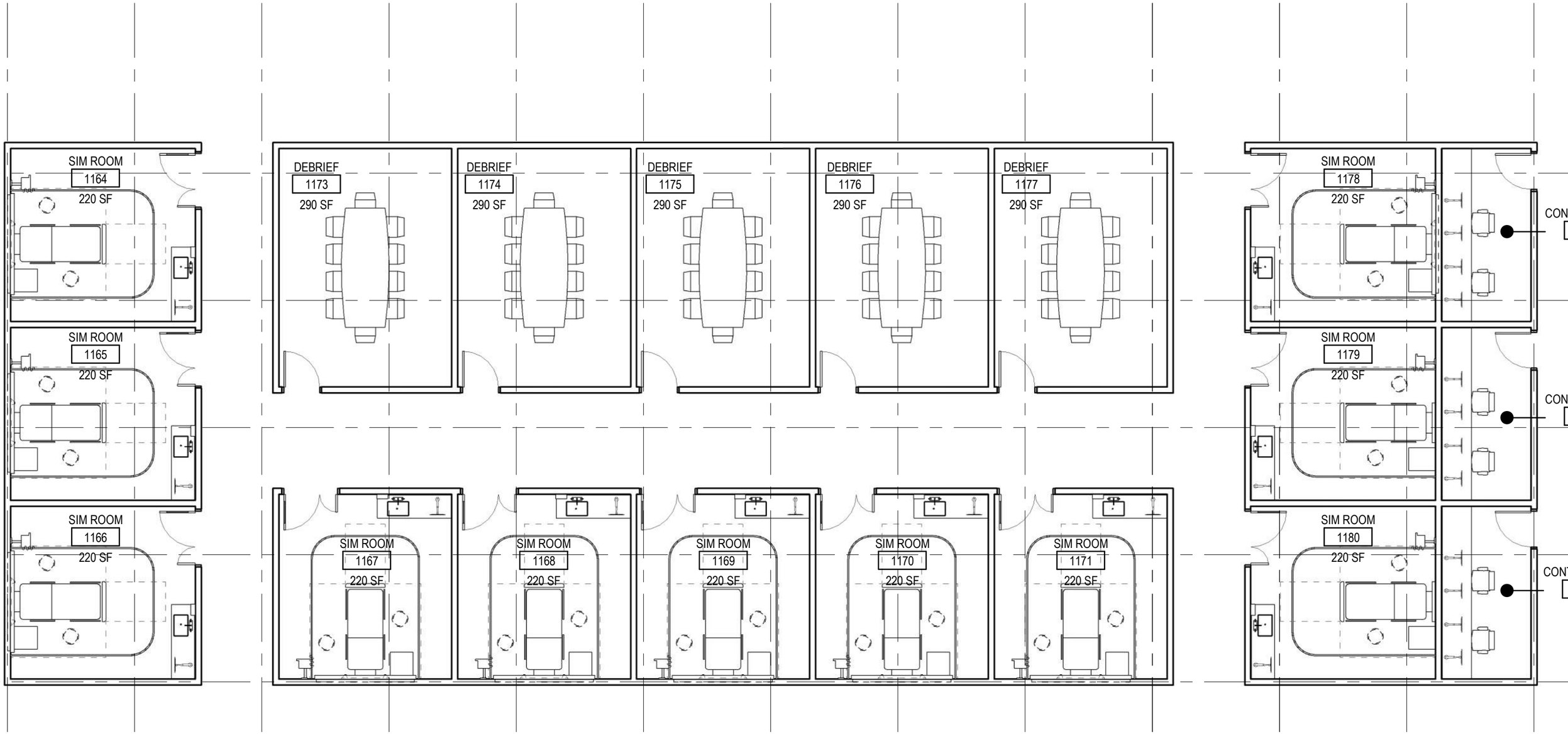


UWEC - 19J4E

NURSING CLINIC AXON

1/8" = 1'-0"

2021-05-11 5:39:08 PM


SIM ROOM
1164
220 SF
SIM ROOM
1165
220 SF
SIM ROOM
1166
220 SF
DEBRIEF
1173
290 SF
DEBRIEF
1174
290 SF
DEBRIEF
1175
290 SF
DEBRIEF
1176
290 SF
DEBRIEF
1177
290 SF
SIM ROOM
1167
220 SF
SIM ROOM
1168
220 SF
SIM ROOM
1169
220 SF
SIM ROOM
1170
220 SF
SIM ROOM
1171
220 SF
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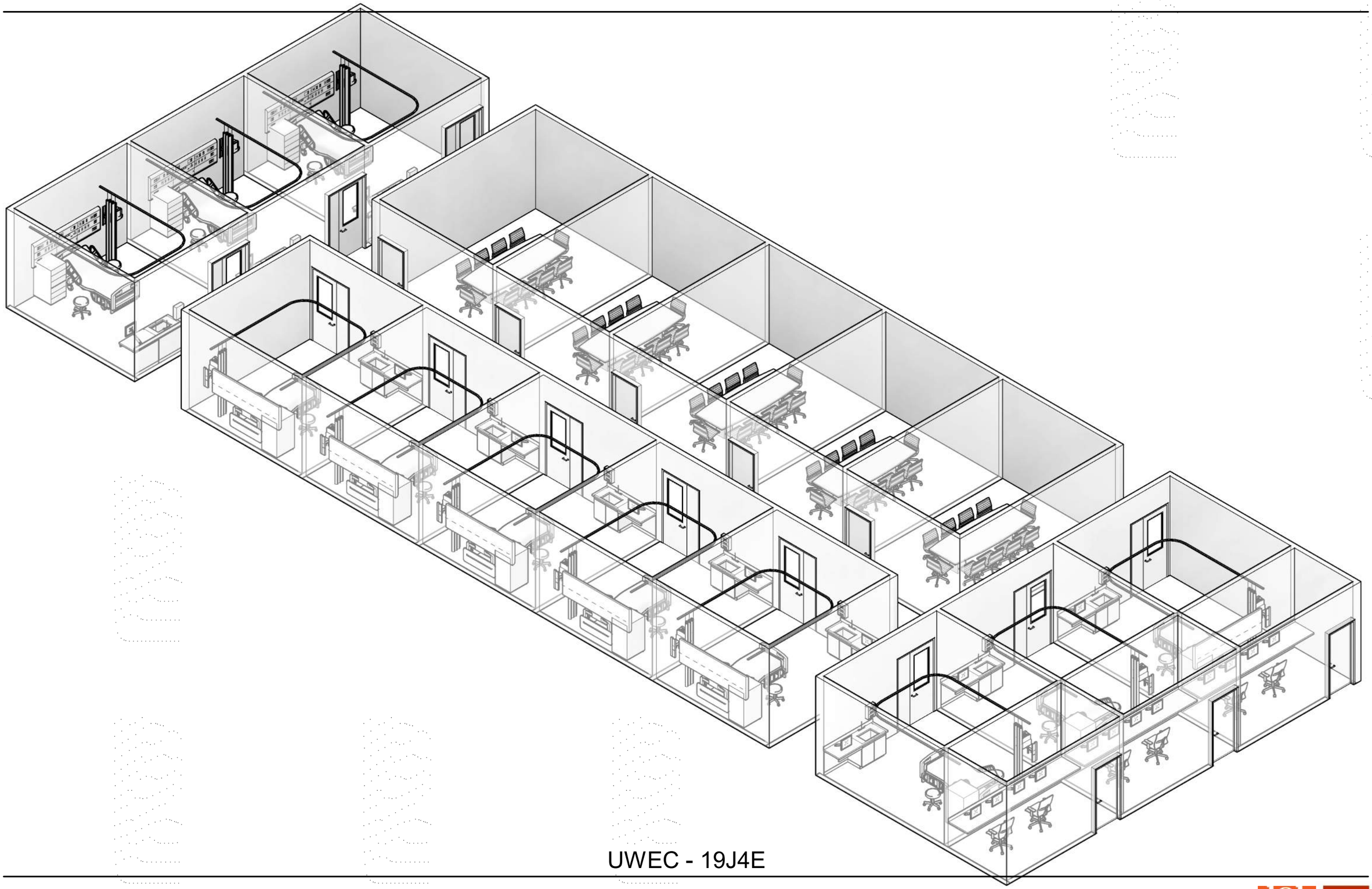
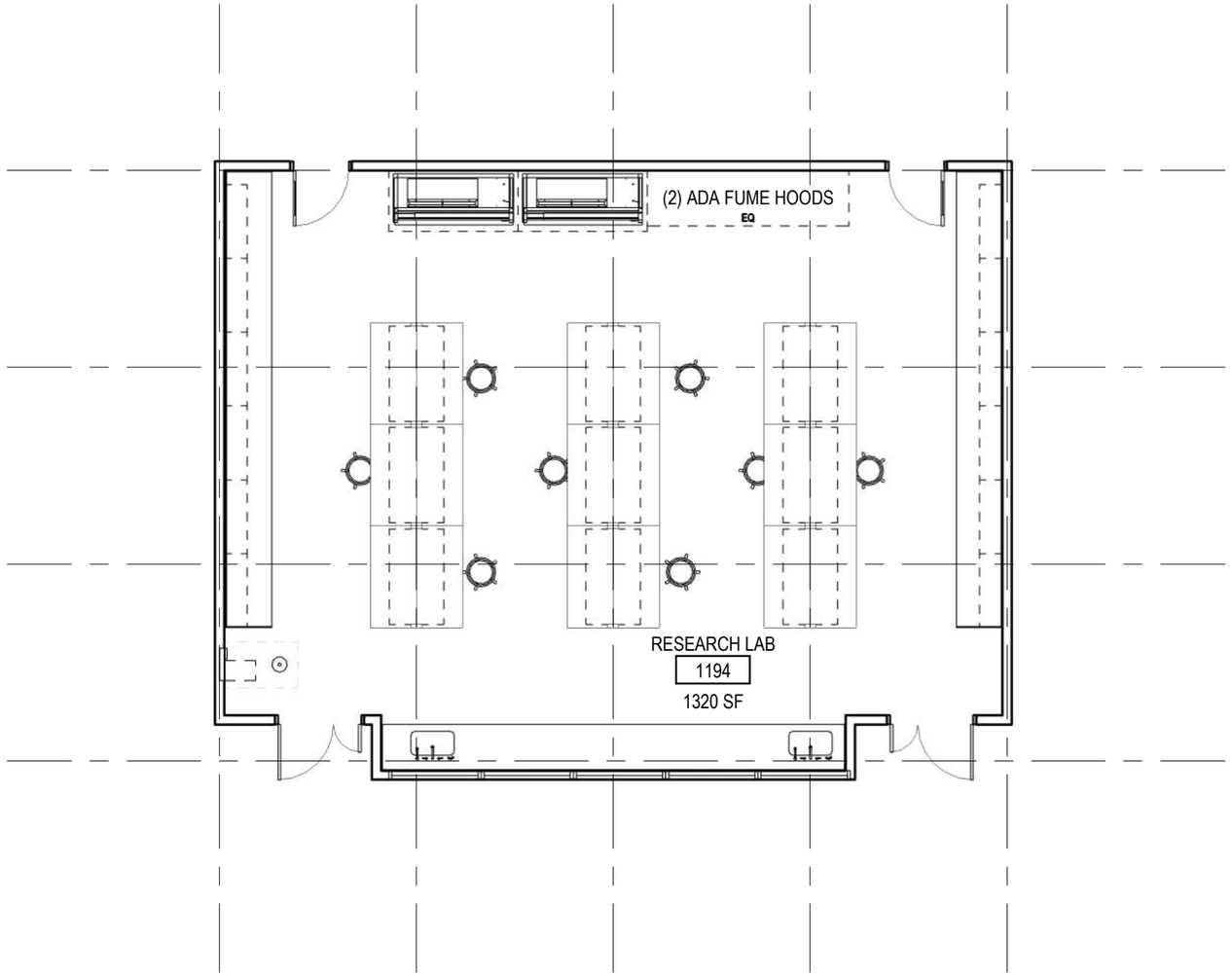
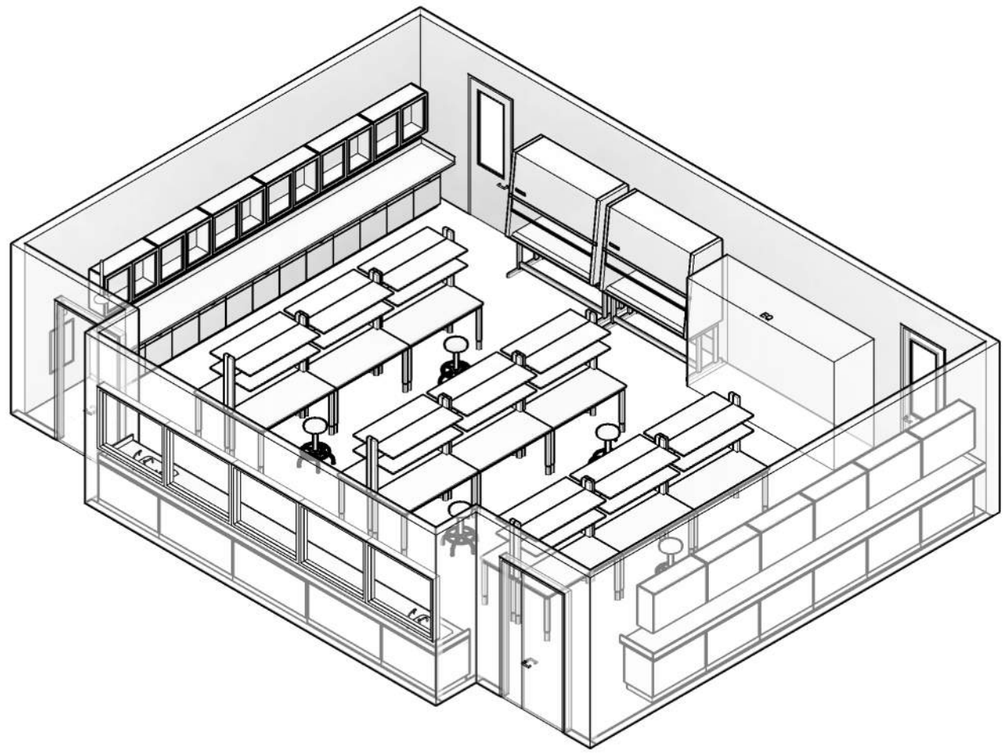
SIM ROOM
1180
220 SF
CONTROL
119
110
CONTROL
119
110 S







ANALYTICAL CHEMISTRY

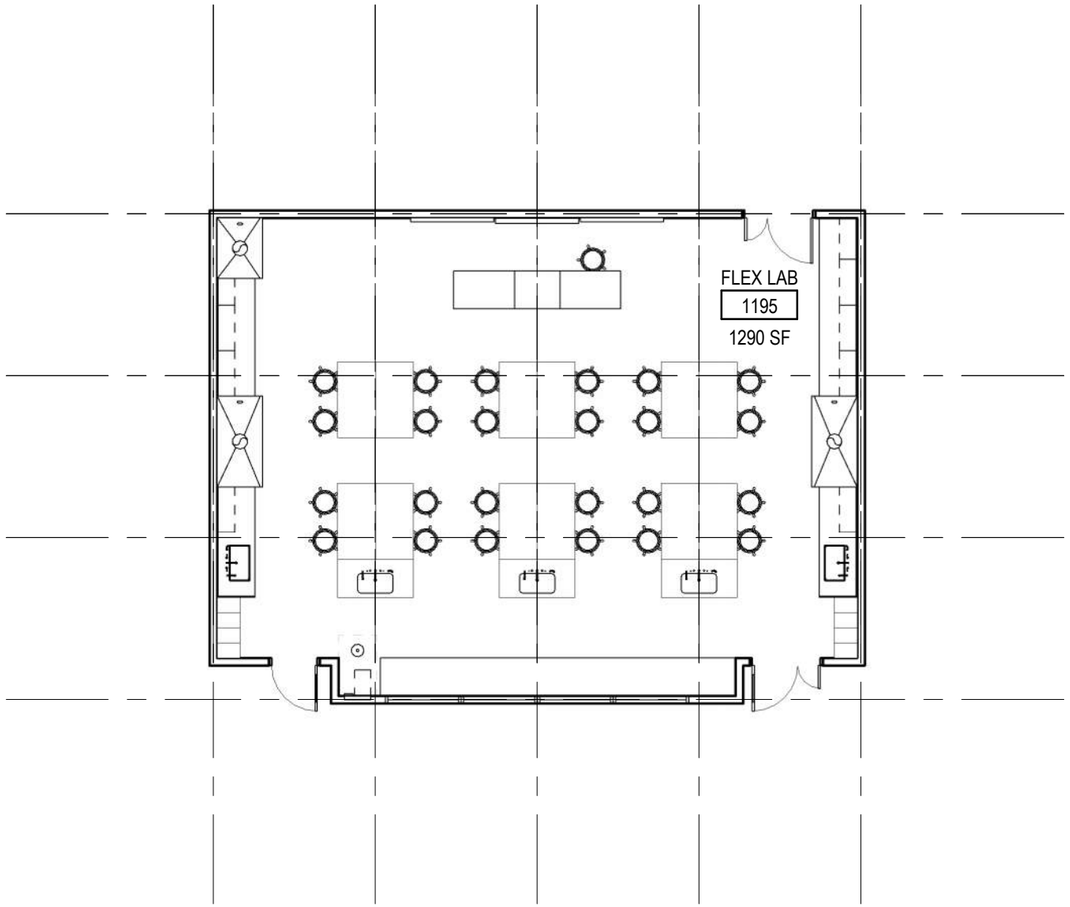
UWEC - 19J4E

RESEARCH LAB 4

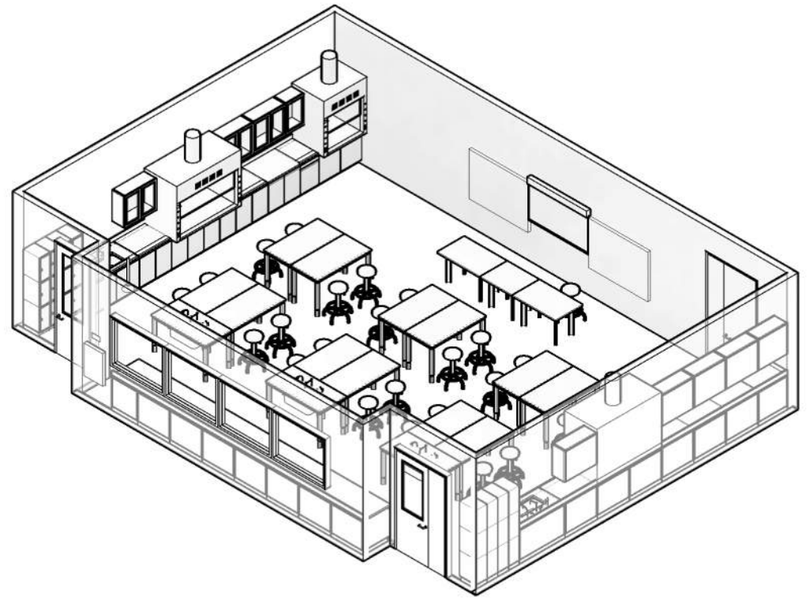
1/8" = 1'-0"

2021-05-11 5:39:16 PM

Potter Lawson
Success by Design



GENERAL CHEMISTRY 1-3



UWEC - 19J4E

TEACHING LAB 17

1/8" = 1'-0"

2021-05-11 5:39:19 PM

Group: Biology

Date 28-Jan-21

Utility Legend

NEMA = Special Plug Type	PW = Purified Water	HE = Helium	
GEN = Generator Power	CA = Compressed Air	N2 = Nitrogen	
UPS = Uninterruptible Power	VAC = Vacuum	ChW = Chilled Water	
ALR = Alarm	EXH = Local Exhaust	CS = Clean Steam	
CW = Cold Water	HV = High Vacuum	STM = Steam	
HW = Hot Water			

Specialty Gases Legend

SG1 =	INSERT NAME
SG2 =	INSERT NAME
SG3 =	INSERT NAME
SG4 =	INSERT NAME
SG5 =	INSERT NAME

Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No	Mounting: Bench / Floor	Weight	Dimensions: Width	Depth	Height	Electrical: Volts	Amps	Watts	Phase	NEMA	GEN	UPS	ALR	Utilities and Gases: CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5	Remarks
EXAMPLE							F	Refrigerator	Puffer Hubbard	FC430A	F		34	37	78	115	14		1		x	x	x																			
		P181		4000555				Sorvall RC-5C Plus Superspeed			F		30	37.5	45	208	24	5000	1	A/250V																						This centrifuge is old and is need of repair/replacement.
		P181		3002485				WaterMizer autoclave by Continental Equipment			F		36	51	75.3	120	20	2400	1							x	x								x	x					
		P181		4000520				Ultralow Freezer 3			F		36	33	78	08/23	12	2500	1	##	X		X																			Must be on back-up power. Must be on automated alarm/call system. 208 volt?
		P181						Hotpoint upright refrigerator/freezer			F		28	27	64	120	10	1200	1	##																					
		P181						Deli Coolers (x2) (one labelled "Howard")			F		79.3	33.5	75	115	14.6	1679	1	20A																					These two deli coolers are very old and definitely need replacement. One is no longer functioning.
		P181						Flammable Chemical Cabinet			F		43.5	20	44.5																									
		P181						Scotsman Ice machine			F		22.5	34	73.2	115	15.2	1748	1	20A						x														Water connection
		P181						Fisher scientific Isotemp hybridization oven			B		18	15	17	120	5.8	696	1	20A																					
		P181						UVP Bioimaging system (EpiChemi3 darkroom)			B		65	26	38	115	3.2	368	1	20A																					
		P181						Nanopure Water system			wall-mount, above		38	8	23	115			1	20A						x													Requires connection to RO water
		P183						Frigidaire upright refrigerator/freezer			F		30	32	65	115	4.75	546	1	20A																					
		P183						Upright Refrigeration/Freezer (brand?)			F		28	30	64	115	5		1	20A																					
		P183						Lab-Line Orbit Skak-R-Bath			B		20	21	22	120	10.5	1265	1	20A																					
		P183						Zeiss 4621483 microscope			B		9	15	13	110	3	345	1	20A																					
		P183						Zeiss 4753033 microscope			B		7	17	16	115	2.5	300	1	20A																					
		P183						Barnstead Labline A class MaxQ 4000 shaking incubator			B		22.5	32	34 (w	120																									
		P183						New Brunswick Scientific C24 Shaking Incubator			B		22	27	34 (w	120	3		1	20A																					
		P183						Precision reciprocating/shaking water bath			B		36.5	14	12	115	12.9	1550	1	20A																					
		P183						General Electric 37C incubator			F		28	29	66.5	120	2	200	1	20A																					This is old.
		P183						Chest Freezer (Bernie for President sticker)			F		57	29.5	35	115	2		1	20A	x																				This chest freezer is old and in need of replacement.
		P183						Thelco Incubator			F		23	22.5	56	120	5		1	20A																				This is old.
		P183						Nuaire Biological safety cabinet			F		54	35	93	115	12		1																					
		P185						Olympus SZ61 microscope			B		9	17	19	120	0.5		1	20A																					
		P185		2627171				OLYMPUS BX60F MICROSCOPE			B		15	25	20	120	2.8			20A																					
		P185						CO2 tanks (x2)			F																														
		P185						Kenmore Upright Refrigerator/Freezer			F		30	34.5	66	115	6		1	20A																					
		P185						Summit Professional Freezer			B		24	25	33.5	115	1.3			20A																					
		P185						Barnstead Labline A class MaxQ 7000 shaking incubator			B		22	26	23	120	7		1	20A																					
		P185						VWR water baths			B		26.5	18	16	115	6		1	20A																					
		P185						VWR incubator			B		22	18	33	115	3		1	20A																					
		P185						Nikon Eclipse E200 Microscopes (x2)			B		8	16	17	115	1		1	20A																					
		P185						General Electric Upright Refrigerator/Freezer			F		28	30	61	115	5		1	20A																					
		P301						Olympus CH30 microscope, with camera linked to TV			B		10	19	28	120	1.2		1	20A																					
		P301						Olympus CH30 microscopes (x15), stored in cabinets by student seats at lab benches					10	19	16.5	120	1.2		1	20A																					
		P301A						Frigidaire Upright Refrigerator/Freezer			F		28.5	33.5	60.5	115	4.5		1	20A																					
		P301A						Flammable Chemical Cabinet			F		32	20	67.5																										
		P302						Kewaunee Fume Hood			F		48	37.5	82.5										x			x	x													It has gas, too. Is vented to the outside.
		P302						Nikon dissecting microscopes (x16) with external light boxes, stored in cabinets next to student seats at lab benches.					14	24	15.5	115	3	150	1	20A																					
		P302A						Olympus SZ30 microscope			B		7.5	12	18	115		50	1	20A																					
		P302A						Nikon Eclipse E200 Microscope			B		9.5	17	17	115	1	100	1	20A																					
		P302A						Collections Cabinets (x8, 4 stacks of two). Dimensions are for one unit.			F		23.5	22	43																										
		P303						Nikon Alphaphot-2 microscopes (x24), stored in cabinets by student seats at lab benches.					8	11	16	120	1		1	20A																					
		P303						Full Skeleton in Cabinet (x4)			F		27	18	84																										
		P303B						A & P models (lots, all on shelves and benchtops)			B																													
		P304						Seedburo Equipment Company Seed Sorter			F		21	16.5	58	120	4		1	20A																					
		P304						6 Bausch and Lomb Microscopes (stored in cabinets)																																	
		P304						Herbarium Cabinets (x10)			F		49.5	21	84.5																										Ventilation, dimension of each indicated
		P304						Incubator/Cabinet? (it is plugged in)			F																													Broken with axillary fan installed
		P304 (hallway)						Collections Cabinets (x5)			F		29.3	21	84																									
		P304A		2637763				WS-C3750G-48TS-S CATALYST			B																													Missing
		P304A		4000908				Leica S9 i Stereomicroscope			B		46	28	20	120			1	20A																					
		P304A						Herbarium Cabinets (x3)			F		28	21	84.5																										Ventilation, dimensions each
		P304A						Leica ICC50 E Microscope			B		9	15	19	120			1	20A																					
		P305		2651507				PORTABLE PHOTOSYNTHESIS SYST			B																													Can't find
		P305						VWR upright Refrigerator/Freezer			F		24	25	67	115	1.5		1	20A																					
		P305						Spex 8000D mixer/mill			B		23.5	19	23	115	8		1	20A																					
		P305						Precision Drying Ovens (x2)			F or B		24	24	46	115		1800	1	20A																					Electrical requirements: 120 V 60 Hz 1680 w 14 A Nema 5 15 US, Plug type: Nema 5-15 US Note: These ovens will trip the circuit breaker if both turned on at the same time. If both on, then takes more than 20A
		P305 hallway						cabinets x 4					36	18.5	78.3																									Dimesions for each
		P306						Refrigerator/Freezer (brand?)			F		33	35	67.5	115	8		1	20A																					
		P306						Fume Hood, Kewaunee																				x		x												
		P306						Nikon C-PSCN microscopes (7), stored in cabinets by student seats at lab benches.																																	
		P306						Nikon SMZ745 microscope			B		30	22	18	120	20A		1	20A																					
		P306A		4000489				Leica Cryostat CM1510 S-3			F		28	27	46.5	120	7		1	20A																					
		P306A						American Optical Microtome			F		26	24	47	115	10.5		1	ndard																					
		P306A						Nikon Alphaphot-2 microscope			B		8	11	16	115	1		1	ndard																					
		P306B						6 x Mac Mini stations for students					24.5	18	48.5	115			1	ndard																					
		P307						Nikon dissecting microscope			B		6.5	23.5	18	120	3		1	ndard																					
		P308		2654894				VWR Incubator - may be gone.																																	
		P308		4000923				Retsch Mixer Mill 400			B		20	18.5	21	115	4		1	ard 120V																					
		P308						Fume Hood					72	38	84.5										x			x												Gas, vented
		P308						Nanopure II water purification system			wall-mount, above		36	7.5	26	120	3		1	ndard						x													
		P308						Frigidaire Refrigerator/Freezer			F		30	32	66.5	115	6		1	ndard																					

Group: Biology
Date ***28-Jan-21***

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ALR = Alarm | EXH = Local Exhaust | CS = Clean Steam
CW = Cold Water | HV = High Vacuum | STM = Steam
HW = Hot Water

Specialty Gases Legend

SG1 = INSERT NAME
SG2 = INSERT NAME
SG3 = INSERT NAME
SG4 = INSERT NAME
SG5 = INSERT NAME

											Mounting		Dimensions			Electrical								Utilities and Gases																	Remarks
Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No	Bench / Floor	Weight	Width	Depth	Height	Volts	Amps	Watts	Phase	NEMA	GEN	UPS	ALR	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5	
		P308						Roper Refrigerator/Freezer			F		30	32	66.5	115	6.5		1	andard																					
		P308						Thermo Scientific liquid nitrogen tank, on wheeled cart.			F		19	19	31																										
		P308						Thermo Scientific CO2 incubator			B		26	26	40	115	3.6	414	1	andard																					
		P308						CO2 tanks (x4)			F		8.5	8.5	57																										Dimension for each
		P308A		2654504				LUMINOMETER TD20/20N #11			B																														can't find it
		P308A						SafeAire Biological safety cabinet			F		74.3	28.5	86.5	115	15		1	andard																					
		P308A						VWR VistaVision Microscope			B		13	19.5	18	115	1	115	1	andard																					
		P308A						Nikon SMZ745 Microscope			B		12	12	15																										
		P308A						VWR Symphony Incubator			F		26	45	40	115	3.6		1	andard																					CO2 hook ups
		P308A						VWR Incubator			F		26.5	29	38	115			1	andard																					CO2 hook ups
		P308A						Autoclave (Barnstead). Very old. This should not be moved to the new building.			F																														Needs water hookup. It would be good if this could be replaced with a new one.
		P308A						Zeiss AXIOSKOP					16	25	22	110	2	250	1	andard																					
		P309						Storage Cabinet (fetal pigs)			F		36	20	72																										
		P309						Nikon Alphaphot-2 microscope with camera linked to TV moniters.			B		64	24	32	115	1	115	1	andard																					
		P309						Nikon Microscopes (x31), stored in cabinets by student seats at lab benches.																																	
		P309						4 TV moniters mounted from ceiling.					34	10	20	115	2		1	andard																					
		P309						Upright cabinets with full skeletons (x4)			F																														
		P309						Cabinets housing human skulls (x4)			F		27	18	84.5																										The skeletons in P309 are very old and in poor condition. It would be good to get new skeletons, with the appropriate housing and display (low temperature and humidity flucuation, as well as UV protection).
		P309A						Chest Freezer - this may not be needed in the new building			F		35	24	34.5	115	10		1	andard																					
		P311						Nikon Alphaphot-2 Microscope (connected by camera to TV moniters)			B		78	28	38	115	1		1	andard																					
		P311						Nikon Eclipse E200 Microscopes (x16), stored in cabinets by student seats at lab benches.																																	
		P311						4 TV moniters mounted from ceiling.					34	10	20	115	2		1	andard																					Depending on teaching technology in the new labs these may not need to be moved.
		P311						Lab-Line Imperial II Incubator			B		39	25	34	115	3	350	1	standard																					This is very old.
		P311						National Appliance Company Incubator			B		22	21	41	115			1	standard																					This is very old.
		P311A						Upright Refrigeration/Freezer (brand?)			F		31	32	67	115			1	andard																					Lifespan? This may be quite old.
		P311A						Nuaire Incubator			F or B		25.5	46	41	115	3		1	andard																					
		P311A						Cooktop/Hotplate			B		15.5	16	4.5	220	9	2000	1	##																					220 volt, 9A
		P311A						Flammable Chemical Cabinet			F or B		48	24	35.5																										
		p311A						Pump Dayton Motor					14.5	18.5	11	115	5.4		1	andard																					Heavy
		P311A						Microwave					22.5	15	12	115		5000	1	andard																					
		P317		2637695				LEICA MZ 75 STEREOMICROSCOPE			B		18.5	30	23	115	3	150	1	andard																					
		P317						Maytag Upright Freezer			F		33	29.5	67	115	10	1200	1	andard																					
		P317						Fisher Scientific Isotemp Incubator (still in box in P304, not installed yet, identical to incubator currently in 317).			B																														see below, edit tonight
		P317						Fisher Scientific Isotemp Incubator			B		25	32	38	120	14	1700	1	andard																					
		P317						Woods Chest Freezer			F		65	28	34.5	120	10	1500	1	andard																					
		P317						Specimen Cabinets (x5)			F		29	22	84.5																										dimensions for each
		P317						Isotemp Gravity Oven					31	39.8	47	120				20A																					
		P320						Nuaire Laminar Flow Hood			F		50	32	79	115	7		1	andard																					natural gas connection
		P320						Nanopure Water system			wall-mount, above		36	7.5	27	120	3	360	1	andard						x															Connection to RO water
		P320						LabLine Refrigerator/Freezer					30	29	64	115	4		1	standard																					This is very old.
		P320						Gibson Refrigerator/Freezer			F		31.5	32	67.5	115	5		1	andard																					
		P320						New Brunswick Scientific Shaking Incubator			B		23	30.5	40	115	12		1	andard																					
		P320						Chicago Surgical Water Bath			F		15	17.5	14	115		400	1	andard																					
		P320						Mettler Toledo Analytical Balance					10	12	13.5	120			1	andard																					
		P320						Eppendorf Charging Ports, pair					15	9	15	115			1	andard																					dimensions for pair together
		P321						Freezer, upright Whirlpool			F		30	32	65.5	120			1	andard																					
		P322						Fisher Scientific Incubator			F		42	23	40	115	5.2	600	1	andard																					
		P322						Precision Scientific Water Bath			B		15.5	15.5	14	120	4.2	500	1	standard																					This is old.
		P322						Chicago Apparatus Company Water Bath			B		28.5	17	18	115		1500	1	standard																					This is old.
		P322						Kelvinator Refrigerator/Freezer			F		28.5	27	64	115			1	standard																					This is old.
		P322						Thelco 37C incubator			B		32	30.5	71.5	115	9		1	standard																					Works but unplugged
		P322A		2627134				Encore 20" autoclave			F		37	53	76	115	35		1					x											x						Hard wired. Water and steam connections. Would be good to have good ventilation around these in the new building.
		P322A						Flammables Chemical Cabinet			B		36.5	27	50														x												Ventilation
		P322A						Signature Refrigerator/Freezer			F		30	30	65	115	4.75		1	andard																					
		P322A						Despatch Incubator			B		34	23	36	220	40		1	##																					This is old.
		P324						Ultralow (-80) freezer. Ordered but not yet installed.			F		28.3	23.1	51.2	208	5.9			NEMA	X	X	X																		Must be on back-up power. 208 volts. Must be on alarm/call system.
		P327						White Westinghouse Refrigerator/Freezer (department kitchen)			F		31.5	31	65.5	115			1	andard																					
		P327						Water Cooler (department kitchen)			F		12	14	57.5	115	10		1	andard																					
		P327						Water jug shelving					36	14	73																										

Group: Biology

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Specialty Gases Legend

SG1 =	INSERT NAME
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SG4 =	INSERT NAME
SG5 =	INSERT NAME

Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No	Mounting: Bench / Floor	Mounting: Weight	Dimensions: Width	Dimensions: Depth	Dimensions: Height	Electrical: Volts	Electrical: Amps	Electrical: Watts	Electrical: Phase	Electrical: NEMA	Electrical: GEN	Electrical: UPS	Electrical: ALR	Utilities and Gases: CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5	Remarks
		P331						Departmental Copier/Printer, Lanier MP3054,			F		36	29	60	115																									
		P364		2651261				Percival TISSUE CULTURE CHAM GSCU-36L4			F		36	34	78	115	12		1	standard																							Standard power hookup
		P364						Avanti JXN-30 Beckman Coulter Centrifuge			F		30	34	56.5	240	24		1	0V, 30A																					Balanced, calibrated, no vibrations
		P364		4000806				Thermo Scientifice Ultra Low Freezer 1, closer to the door			F		37	34	78	220	12		1	0V,2	X	X	X																		Must be on back-up power. Must be on automated alarm/call system. 208 volt?
		P364		2654682				Fisher Scientific Ultra Low Freezer 2			F		37	34	78	120	16		1	anda	X	X	X																		Must be on back-up power. Must be on automated alarm/call system. 208 volt?
		P364						Galaxy Chest Freezer			F		27.5	23	49	115	5		1	andard																			
		P364						Frigidaire Refrigerator/Freezer (black)			F		30.5	32.5	66	115	4.5		1	andard																					
		P364						Frigidaire Refrigerator/Freezer (white)			F		30	33	66.5	115	4.5		1	andard																					
		P364						Fisherbrand Refrigerator/Freezer			F		30	33	66.5	115	6.5		1	andard																					
		P364						Kenmore Freezer			F		32.5	31	72	115	5		1	andard																			Lifespan? This may be old.
		P364						Fisher scientific IsoTemp Incubator (glass front door).			B		25.5	25	33.5	115	5		1	andard																			
		P364						Fisher Scientific LowTemp Incubator. A			B		24	25	35	115	9.5		1	andard																			
		P364						Fisher Scientific IsoTemp Incubator (solid front door). B			B		32	31	71	115	8		1	andard																			
		P364						Thermo Scientifif MaxQ 4450 Shaking Incubator			B		15	28.5	32	120	4		1	andard																			
		P364						Allegra 25R centrifuge			On a table		46	47	38	208	16		1	0V, 20A																			
		P364						Fisherbrand Low Temperature Incubator (upright, solid front, white, on floor). D			F		26	46	27	115			1	andard																			
		P364						Fisherbrand Isotemp Incubator (glass front, on floor). C			F		24	28	33	115	4		1	andard																			
		P364						UVP HL-2000 Hybrilinker			B		18	17.5	25	115	10		1	andard																			
		P364						Fisher Scientific Accuwash microplate washer			B		22	17	12	115	3		1	andard																			
		P364						New Brunswick Scientific Excella E24 Shaking Incubator			B		23	30.5	40	115	12		1	andard																			
		P364						FisherBiotech Hybridization incubator			B		16	14.5	14	120	4.17	500	1	andard																			
		P364						Nuaire CO2 incubator (two chambers) (not hooked up to CO2)			F		25.5	27.5	74	115		1100	1	andard																			As one unit. These are old and CO2 does not work.
		P365		2651747				TRILOGY 7200 FLUOROMETER			B																											not here
		P365						Many mounted birds			B, wall-mounted																											
		P365						Specimens in preservative in jars, on shelves and in cabinets			B		157	8.5	84																								total width across all shelves
		P365A						Specimen Cabinets (x11, both tall and short, some stacked)			F																											
		P365A						Many mounted birds			B																											
		P365A						Double cabinet					55	39	40																							Paired dimension
		P365A						Triple cabinet					36	20	78.5																							Each dimension
		P365A						Sextuple cabinet					140	30	84.5																							Grouped all six measured as one block
		P366		2641409				POLYMERASE CHAIN REACTION SYST			B																											Not found
		P366		4000813				Mott Mfg Lab Casework (x12)			F		72	29	78.5	115	20		1	andard																			Require standard power hook-ups. Measurements are for each table
		P366						BioRad CFX Connect Real-Time PCR Detection System			B		13	19	26	115		850	1	andard																		
		P366						Fisherbrand incubator			B		12	18.5	16.5	115		45	1	andard																		
		P366						Leica M80 dissecting microscopes (x2) Station			on table		50	30.5	55	115		15	1	andard																			Includes lamp source, paired, with table
		P367		4000847				analytik jena uvp gel studio			B		54	19	33.5	115			1	andard																			need two standard outlets for gel doc and printer
		P367						Roper Upright Refrigerator/Freezer			F		28	33.5	68	115	6.5		1	andard																			Lifespan? This may be old.
		P367						GE Profile Dishwasher			F		24	30	34.5	120	9.9		1	andard																			Water, power hookups
		P367						Gibson twenty-five Chest Freezer			F		69.5	29	54	115	12		1	standard																			This freezer is quite old.
		P368		2637723				NIKON 90I MOTORIZED W/DICUS			B		52	30	53	115			1	andard																			monitor, scope and table. Ideally this would be on a vibration-reducing table.
		P368		2628036				NIKON SMZ1500 STEREOMICROSCOPE			B		22	24	32	115			1	andard																			Ideally this would be on a vibration-reducing table.
		P368		4000861				DanioVision Observation			B		13	18.5	40	115			1	andard																		
		P368						Fisherbrand Incubator			B		10.5	19	16.5	115		45	1	andard																		
		P368						Olympus BH microscope			B																												This will be surplused, but could be replaced by a new unit.
		P369						Nuaire Laminar Airflow work stations (2)			F		38	32	52	115	7		1	andard																			Dimensions for each
		P369						Igloo Chest Freezer			F		28.5	22.5	33.5	115		130	1	andard																			This was in P364 and may be going back. A second one may be on order.
		P369						Fume Hood					48	37	84	?								x				x	x										gas and air
		P369						Eppendorf Centrifuge 5804			B																												This will be surplused (broken). Could be replaced by a new unit?
		P369						Nikon SMZ1B Microscopes (x8), stored in cabinets by student seats at lab benches.																															
		P369						Nikon SMZ645 Microscopes (x8), stored in cabinets by student seats at lab benches.																															
		P370		2637687				NIKON ECLIPSE E600			B		13	24	22	115	2.4		1	andard																			
		P370		4000860				Microscope, world precision instruments, PZMTIII-MI			B		39	17	26	115			1	andard																			
		P370						Fume Hood, Kewaunee					48	38	84									x				x											air, gas
		P370						Fisherbrand incubator			B		10.5	18.5	16.5	115		45	1	andard																		
		P370						Zeiss microscope 4993406			B		8	11	17.5	?																								

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		P370						Baush and Lomb Microscope			B		12	22	17	115	1		1	standard																				measured with bifurcated lamp
		P370						Olympus CKX41 Microscope			B		11	21	19	115			1	standard																				
		P370						Zeiss microscope on metal base, model 4753166			B		17	19	17.5	115			1	standard																				
		P370						Compressed air tank,			F		12	11	61																							
		P371						Acid Chemical Cabinet			F or B		32	22	36															x									
		P371						fume hoods HV-1					48	37	85.5	?								x				x										air, gas
		P371						Flammable Chemical Cabinet			F or B		23	21	35.5																							
		P371						fumehood HV-2					48	37.5	90	?								x				x										air, gas
		P372						Countess II FL, cell counter (CMD, tissue culture room)			B		10	6.5	9.5	115			1	standard																				
		P372						Thermo 1300 Series Class II, Type A2 Biological Safety Cabinet, 6ft stainless steel 10in sash (CMD, tissue culture room)			F		75	36.5	90	120	10		1	standard																				
		P372						4ft BSC in tissue culture room			F		53	32	87	120		400	1	standard																				Would prefer two 6-foot cabinets in the new building.
		P372						Fisher Isotemp CO2 incubators (x2) (stacked)			F		26	25.5	78.5	115																							Measurement of stacked incubators
		P372						CO2 tank			F		9	11	56.5																							
		P372						Thermo Scientific Locator Jr Plus Liquid Nitrogen Tank			F		22	22	35.5	115	20		1	standard																				
		P372						Fisher Scientific Water Baths (x2)			B		14	10	17	115	2.4		1	standard																				single measurement
		P372						RevSci Incubator			B		15	23	16.5	115	1	120	1	standard																		
		P372						Olympus CK2 Microscope			B		12	18	19	120		20	1	standard																				
		P372						General Electric Upright Refrigerator/Freezer			F		28	28	62	115	10		1	standard																				Lifespan? This could be old.
		P373						Whirlpool Upright Refrigerator/Freezer			F		24.3	25	60.8	115	6.5		1	standard																				
		P373						Frog tanks (x4)			B		24.3	12.5	20	120	1		1	standard																				dimensions for one tank
		P374		4000857				C09749 CtyoFLEX System B3-R2-V			B		57	16	17	115	3	250	1	standard																				dimension for station
		P374						Nuaire Laminar Flow hoods (x2)			F		50	32	87	115	8		1	standard																				dimension for each
		P374		4000844				UVP Chem Studio			B		34	23	25	115	2.2		1	standard																				
		P374						Nanopure Water system			wall-mounted, above		19	13	27.5	115	2		1	standard						x														RO water hook-up
		P374						Flammables Chemical Cabinet			B		36	25.5	35																							Side vented, Ventilation
		P374						BioRad iMark Microplate Reader			B		35	23	18	115	13		1	standard																				
		P374						Invitrogen EVOS M5000 microscope			on table		39	26	22.5	115	1.8		1	standard																				dimension for station
		P374						Lab-Line Orbit Shaking Incubator			F		38	30	58	120	8.4		1	standard																				This is very old and could be replaced.
		P375						Nikon Alphaphot-2 microscopes (x25), in cabinets next to student seats at lab benches.																															
		P375						Fisher Isotemp Water Circulator			B		10	20.5	26	115	11.7		1	standard																				
		P375						Fisher Scientific 1016S Isotemp Water Circulator			B		10	17	22	115	12		1	standard																				
		P376		2603334				STERILIZER AMSCO EAGLE-2021			F																													no longer exists
		P376		2654680				WaterMizer autoclave by Continental Equipment			F		36	50	76	115	35		1	standard				x												x				Water, steam, power hookups typically needed for an autoclave. Would be good to have good ventilation around this.
		P376						Frigidaire Dishwasher			F		23.8	24.5	35	120	7.7		1	standard																				Water hook-up
		P376						Fume Hood					48	36.5	84	?								x																gas
		P379						Fume Hood, Hamilton			B		51	33.5	54.5	?								x																
		P379		2635305				Nikon SMZ1000 Dissecting Microscopes (x2)			B		12	25	17.5	115	3	150	1	standard																				measurements for one, with bifurcated light
		P379						Olympus CH-2 microscope			B		9	12	15.5	115	0.35	30	1	standard																				
		P379						Lab-Line HEET-CAB incubator			B		22	20.5	25	120		1450	1	standard																				This is very old.
		P379						General Electric Upright Refrigerator/Freezer			F		28	29	61.5	115	8.5		1	standard																				Need a new one. This is very old.
		P381		1721239				MICROSCOPE W/ACC MOD-18 ZEIES			B																													can't be found
		P381						Olympus SZ30 dissecting microscope			table		12	24	18	115	3	150	1	standard																				
		P381						Water purification system for tanks in 381A			F		44	39	60	115	5		1	standard						x														four plugs, footprint for three tanks total, feed water?
		P381A						Fish tanks (>20, various sizes, all on racks)			F		77	24	73	115	1		1	standard																				measurements for each shelving unit
		P383		2628039				ADV-11000 SPLASH PROOF SYSTEM			B																													portable for fieldwork, extensive power for heat, light, filters for tanks
		P383		2635305				NIKON SMZ-1000 MICROSCOPE			B																													
		P383		2645076				NIKON SMZ-800 RESEARCH STYLE			B		12	24.5	19	115	0.8		1	standard																				
		P383		2654651				Benthotorch			B																													portable for field work
		P383		2654698				Nikon Zoom Stereo Microscope			B																													
		P383						Fume hood Kewaunee					48	37.5	85.5	?								x				x	x										gas, air
		P383						Fisher Scientific Incinerator. Currently located in fume hood.			B		20.5	23	30	220																								Requires ventilation (which is why it's in a fume hood right now)and 220v.
		P383						Kelvinator Upright Refrigerator/Freezer			F		28	27	64	115	8		1	standard																				
		P383						Haier small refrigerator			B		19	18	19	115	5		1	standard																				
		P383						Thelco Model 17 Incubator			B		23.5	20.5	33	120	10		1	standard																				
		P383						Nikon C-DSD115 dissecting microscope			table																													could not find
		P383						Haier Chest Freezer			F		22.5	22	48	115	5		1	standard																				
		P385		2641411				GFL-1 PORTABLE FLOUROMETER			B																													could not be found

Group: Biology

Date 28-Jan-21

Utility Legend

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CW = Cold Water	HV = High Vacuum	STM = Steam	
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Specialty Gases Legend

SG1 =	INSERT NAME
SG2 =	INSERT NAME
SG3 =	INSERT NAME
SG4 =	INSERT NAME
SG5 =	INSERT NAME

Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No	Mounting: Bench / Floor	Mounting: Weight	Dimensions: Width	Dimensions: Depth	Dimensions: Height	Electrical: Volts	Electrical: Amps	Electrical: Watts	Electrical: Phase	Electrical: NEMA	Electrical: GEN	Electrical: UPS	Electrical: ALR	Utilities and Gases: CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5	Remarks
		P385						Olympus CH30RF100 microscope, with camera linked to 2 large TV moniters hung from ceiling.			B		108	30	24	115	0.3		1	standard																						footprint for multiple components
		P385						A & P models (lots, all on shelves and benchtops)			B																															entire wall for storage, 25' long
		P385 (hallway)						Collections Cabinets (x7)			F		29.3	21	84.5																										dimensions for each
		P504B						Conviron Gen1000 growth chambers (x2)			F		41	33.5	77.5	120	30		1	30A																						draining regular water. Check on heat dispersal 8000btux2. 2 unique 30 amp fuses - one for each chamber. More details: Electrical Services: 120-1?-60Hz-2 wire plus ground - 30 Amp service, Drain: A 1" drain with tubing is provided underneath chamber, located in the center, Humidity System: Must be supplied with reverse osmosis water. Water resistivity must be between 0.01 to 0.02 Meg ohm-cm (M?-cm). Maximum water usage to maintain specified levels is 1 liters/hr. Dimensions for each cabinet
		P504B						Culligan Filtration System					23	16.5	68																										
		P504C						Shelves/Lights for Plant Growth			F		48	18	86.5	115	0.5		1	standard																						Use standard power hookups. This growth room would ideally be replaced with a real plant growth room or walk-in chamber (as produced by such companies as Conviron). Even better would be to have two or more such rooms/chambers in the new building. mesasurements for each shelving unit
		P505						4 homemade LED chambers for plant growth (~2' x 2' x 2' each)			F or B		48	24	21	115	1		1	standard																				to be in a temperature-controlled, absolutely dark room/environment. Alternatively, new LED growth chambers could be purchased to replace these, but this could be expensive. The LED chambers could be replaced with real plant growth chambers, with the appropriate red, far-red, and blue wavelength LEDs. This would eliminate the need for a temperature-controlled room (though the room would still have to be able to be made dark at times). 4 independent chambers would be needed. dimensions are for a pair.
		P517 (greenhouse)						Chemical Cabinet			F		36	25	36																										Ventilation, side vented
		P517 (greenhouse)						Refrigerator			F		20.5	21	31	115	5		1	andard																				
		P523						Zebrafish housing system (tanks)			F		41	20	63	115			1	andard																				controlled environment. Needs backup power. Can use normal water (as is now), but RO water would be better.
		P524		4000859				Zebrafish Housing System (tanks)			F		77	15	88	115	0.42		1	andard																				controlled environment. Needs backup power. Can use normal water (as is now), but RO water would be better.
		P526		2637691				CESCO GWCR-48 WASHER (RECOND) (cage washer)			F		74	54.5	84	480	17		3											x										Power, water requirements? Doug Matthews (Psychology) would have this information. This should be replaced with a new cage washer in the new building. This would require steam, venting, 220VAC and a large drain.
		P526						Refrigerator/Freezer			F		19	20	34	115	5		1	andard																				

Group: Biology

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											Mounting		Dimensions			Electrical							Utilities and Gases																Remarks
Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No	Bench / Floor	Weight	Width	Depth	Height	Volts	Amps	Watts	Phase	NEMA	GEN	UPS	AUX	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5	
		P311 (hallway)						Marine Fish Tank			F		73	24	70																									(standard), for various powered items associated with the tank.
		P311 (hallway)						Marine Fish Tank			F		73	24	70																									(standard), for various powered items associated with the tank.
		PHL-PKL		4000422				Chevrolet 4500 Duramax Bus			Parking spot																													
	Additional Wanted Items										F		36	96	36																								Needs to be in room with elevated ventilation and floor drains
		Cadaver space						Cadaver Tables-Submersion																																
		For Christina's Biology prep area (the main prep area)- a fume hood is needed.																																					

Group: Chemistry

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EXAMPLE							F	Refrigerator	Puffer Hubbard	FC430A	F		34	37	78	115	14		1		x	x	x																		
				2654674				Dell Poweredge																																	
				2654675				Dell Poweredge																																	
		PHL-0474		4000134				49i Ozone Analyzer																																	
		PHL-0483		4000413				Biotage Isolera SystemDetector																																	
		PHL-0482		2635141				PHOTON OL3-00L NITROGEN LASER																																	
								Perkin Elmer Purge gas generator																																	
		PHL-0482		2637661				NICOLET AVATAR 360 FT IR																																	
		PHL-0481		4000863				Thermal Analysis System																																	
		PHL-0479		2635031			E	Nexus Vac-Atm Glovebox	Vac Atmosphere	NEXUS	F		91+	39+	73	120					x											x				Ar					
		PHL-0479		4000405				Cary 60 Instrument																																	
		PHL-0479		4000403				Versastat4-200 DC Voltammetry																																	
		PHL-0479		4000994				CH Instruments 760E Potentiostat																																	
		PHL-0479						Akta FPLC																																	
		PHL-0479						BTLab Systems Incubator Shaker																																	
		PHL-0479						Pine Research WaveVortex Rotator																																	
		PHL-0477		2632481				PROTEIN TECH PS3 PEPTIDE SYNTH																																	
		PHL-0477		2640971			E	NEXUS 670 SPECTROSCOPY SYSTEM		670	B		30	30	15	125	10										x					x									either compressed N2 OR air with wall-mounted Kaeser cleaner system
		PHL-0472		AJ311AT-141-J9				Freeze Dry System, Lyophilizer	Labconco		F		2.5'	3'	3'	120	x																								Electrical plug note: L4M-12-14
		PHL-0467C		2651521				STORM 845 PHOSPHORIMAGER			B		30'	30'	14'	120																									
		PHL-0467C		2652694				TRI CARB 2810 DOMESTIC LIQUID			B		36'	36'	20'	120																									
		PHL-0467C		2640956				LABCONCO CENTRIRAP CONCENTRATO			B		15'	26'	12'	120																									
		PHL-0467C		SERIAL # 1239-04-08				Ultrasonic liquid processor			B		12'	20'	6'	120																									
		PHL-0467C						Beckman Coulter Microfuge 22R Centrifuge			B		15'	24'	12'	120																									
		PHL-0467C						-20 deg C Frezzer	VWR		F		30	36	68	120	x																								electrical note: L4M-6
		PHL-0466		2625184				PROSTAR 330 PHOTODIODE ARRAY																																	
		PHL-0466		2630963				FISHER LABWARE WASHER 97-97520																																	
		PHL-0466		2627142				PROSTAR ARRAY DETECTOR 335																																	
		PHL-0466		2627143				FRACTION COLLECTOR 440-LC																																	
		PHL-0466		2627144				PROSTAR 210																																	
		PHL-0466		2637684				UV-VISIBLE 50 BIO CARY																																	
		PHL-0466		2651501				CARY 50 SPECTROPHOTOMETER																																	
		PHL-0466		2651502				CARY 50 SPECTROPHOTOMETER																																	
		PHL-0466		2651503				CARY 50 SPECTROPHOTOMETER																																	
		PHL-0465B		4000773				912A0607 Nicolet IS10 Mid Inf			B																X														
		PHL-0465B		2606046				SPECTROPHOTOMETR HP8452A(5777)																																	
		PHL-0465B		2614032				TURBO MOLECULAR PUMP			B					115	15					X																			
		PHL-0465B		2615855				BALZERS TURBO PUMP TSU240(6310			F		27	27	48	115	15		1			X																			
		PHL-0465B		2630940				CRYOMECH OPTICAL CRYSTAT ST15			F		24	24	24	220	30		3																						
		PHL-0465B		2637679				4K OPTICAL CRYOSTAT RDK-2050																																	
		PHL-0465B		2637761				THERMO ELECTRON NEXUS 670 FTIR			B																X														
		PHL-0465B		4000308				Turbopump DN100 CF-F																																	
		PHL-0465A		2641058				PDDLS LIGHT SCATTERING PLATFOR																																	
		PHL-0465A		4000467				Micro Air Data Computer																																	
		PHL-0465A		2627091				STOPPED-FLOW MICROVOLUME 6705																																	
		PHL-0465A		4000133				Allegra X-30R IVD Cell-Cult																																	
		PHL-0464		2641230				EPSILON C3 ELECTROCHEM ANALYZE																																	
		PHL-0462		2651269				CARY 50 MICROPLATE READER																																	
		PHL-0446		2627160				EDWARDS PUMP A36502982 E2M80			F	500 l	4 ft	2 ft	4 ft	208	15		3																						2 stacked pumps, each needs dedicated 15 amp circuit breaker with reset switch
		PHL-0440		2632401				SCANMATE OG2E DYE LASER																																	
		PHL-0440		2635219				MOLECULAR BEAM APPARATUS WITH PULSE VALVE			F	00 l	3 ft	2 ft	7 ft	220	15		1																						
		PHL-0440		2635339				HARMONIC GENERATORS FOR ND:YAG LASER																																	
		PHL-0440		2635340				CONTINUUM PULSED ND:YAG LASER			F	00 l	3 ft	1 ft	3 ft	220	15		1																						
		PHL-0440		2641019				SPECTRA PHYSICS COBRA DYE LASER																																	
		PHL-0440		2641020				SPECTRA PHYSICS DYE LASER OPTICS UPGRADE KIT																																	
		PHL-0457		2640972				RADIANT INC NARROWSCAN D-R DYE LASER																																	
		PHL-0457		2645456				INNOLAS ND:YAG LASER																																	
		PHL-0457		2651523				TEKTRONIX DP03034 OSCILLOSCOPE																																	
		PHL-0457		2651730				ISTAR DH740-18F-A3 ICCD CAMERA HEAD																																	
		PHL-0461		2624729				PULSED LASER WAVELENGTH METER																																	
		PHL-0481		2633291				FIBER OPTIC COUPLER 9001-53																																	
		PHL-0422		2640946				AGILENT 8453 UV VISABLE																																	
		PHL-0411		2637641				BRUKER MACH3S CRYSTAL DIFFRACT																																	no longer in dept
		PHL-0411		2637642			E	OXFORD CRYO 700 GAS COOLER			B/F		22	39	28						x						x									LN2					floor space for Dewar and transfer line

Group: Chemistry

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											Mounting		Dimensions			Electrical							Utilities and Gases																Remarks
Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No	Bench / Floor	Weight	Width	Depth	Height	Volts	Amps	Watts	Phase	NEMA	GEN	UPS	ALR	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5	
		PHL-0411		2650040				BCU-05 PRE-COOLING ACCESSORY																																	
		PHL-0409		2641375				LC/MSD-TOF AGILENT MODEL 6210	Agilent	LC/MSD TOF	B		36"	24"	54"	250	15		1			x										x									L4M 12-14, Plus HPLC unit, model 1200 Sries, of L17"xW14"xH33"
		PHL-0409		2652693				DIODE ARRAY DETECTOR G1315C																																	
		PHL-0407A		2637681				DL-38 VOLUMETRIC TITRATOR																																	
		PHL-0407A		2641419				HPLC SYSTEM MODEL 1100																																	
		PHL-0407A		4000474			E	Agilent MP-AES	Agilent Tech	4200	B		40	30	60	115	15		1								X		X										CO-LOCATED W/ N2 GEN
		PHL-0407A		4000475			E	Nitrogen Generator for MP-AES	Agilent Tech																			X											WALL-MOUNT
		PHL-0407		2641418				HPLC SYSTEM MODEL 1100																															
		PHL-0407						HEI-VAP ROTARY EVAPORATOR																	x				x					x						alternate: recirculating chilled water
		PHL-0407						HEI-VAP ROTARY EVAPORATOR																	x				x					x						alternate: recirculating chilled water
		PHL-0405						HEI-VAP ROTARY EVAPORATOR																	x				x					x						alternate: recirculating chilled water
		PHL-0405						IKA ROTARY EVAPORATOR																															
		PHL-0403A						NANALYSIS 60E NMR																															
		PHL-0403		4000381				Spectroscopy System																															
		PHL-0403		2633271				SOLVENT PURIFICATION SYT 400-2																															
		PHL-0403		4000404				Isotemp 13																															
		PHL-0403						HEI-VAP ROTARY EVAPORATOR																	x				x					x						alternate: recirculating chilled water
		PHL-0403						HEI-VAP ROTARY EVAPORATOR																	x				x					x						alternate: recirculating chilled water
		PHL-0403						HEI-VAP ROTARY EVAPORATOR																	x				x					x						alternate: recirculating chilled water
		PHL-0175		2612815				MICROSCOPE																															
		PHL-0175		2612817				MICROSCOPE																															
		PHL-0175		2612818				MICROSCOPE																															
		PHL-0175		2612819				MICROSCOPE																															
		PHL-0175		2612820				MICROSCOPE																															
		PHL-0175		2612814				MICROSCOPE																															
		PHL-0170		4000262				Computer Node: Ace Power works																															
		PHL-0170		4000263				Computer Node: Ace Powerworks																															
		PHL-0170		4000851				Dual Intel Xeon																															
		PHL-0110		2612816				MICROSCOPE																															
		PHL-0405		2635307				BIOTAGE ISOLERA ISO-1SV																															
		PHL-0405		2635308				BIOTAGE INITIATOR MICROWAVE																															
		PHL-0405						Welch Vacuum System																															
		PHL-0403						Thermo ATR FT-IR																															
		PHL-0403A						Thermo ATR FT-IR																															
		PHL-0403B					E	Agilent 7820A GC 5977E MSD	Agilent Tech	7820A/5977E	B	00 lb	40	35	35	125	30		1			X							x							UHP He					auto sampler requires 20" space above
		PHL-403		2655057			E	Agilent 7820A GC	Agilent Tech	7820A	B	00 lb	25	35	35	125	30		1										X							UHP	Air	H2			auto sampler requires 20" space above

Group: Chemistry
Date *28-Jan-21*

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		PHL-403		2655058			E	Agilent 7820A GC	Agilent Tech	7820A	B	00 l	25	35	35	125	30		1										X							UHP I	Air	H2			auto sampler requires 20" space above
		PHL-0465B		2651508				TPU 261PC TURBOMOLECULAR PUMP																																	
		PHL-0405		2635313				MINI TR DW TROUGH WITH WELL																																	
		PHL-0405		2635314				LANGMUIR BLODGETT TROUGH																																	
		PHL-0405		4000326				Langmuir Blodgett Medium																																	
		PHL-0405		4000426				KNIC 156 Lang. Blodg. Trough																																	
		PHL-0405		2635147				VAC SYSTEM 38706 OMNI-LAB																																	
		PHL-0418A						Jasco P-1020 Polarimeter																																	
		PHL-0479						Isotemp refrigerator/freezer - Fisher Scientific	Fisher Scientific		F		30	36	72	120					x	x																			
		PHL-0479						Rotavapor R-210 - Buchi																																	
		PHL-0479						Heratherm oven - Thermo Scientific																																	
		PHL-0479						Biotage Isolera One chromatograph																																	
		PHL-0403		4000391				Spectroscopy System																																	
		PHL-0440		2635339				HARMONIC GEN SL2D-1 AND SL3D-1																																	
		PHL-0465B		2637761				THERMO ELECTRON NEXUS 670 FTIR																																	
		PHL-0465B		2651508				TPU 261PC TURBOMOLECULAR PUMP																																	
		PHL-0477		several			E	Custom-built high vacuum chamber	several	n/a	F	300 l	60	40	80	250	20	(x2)	3	x		x					x		x			x	x								pulley lift needed in celing, gas cylinder storage nearby; 2X power for integral cryostat; adjacent benchtop for IR spectrometer (Nexus 670, listed above)
		PHL-0477		several			E	High-vacuum glass line	several	n/a	B	50 lb	70	30	40	120	10		1										x				x								gas cylinder storage
		PHL-0411		4000891			E	XtaLAB mini II Xray Diffractometer	Rigaku	XtaLABmini II	B	150 l	22	18	39	120					x	x																			
		PHL-0411		2683548			E	UPS for XRD	APC	SRT96BP	B/F	70 lb	32	7	18	120					x																				on floor, can be on bench
		PHL-0481						STARe DSC	Mettler Toledo		B																														
		PHL-0481						Subambient cooling system	Mettler Toledo		F	50#	24"	36"	24"																										
		PHL-0411		2645080			E	400 MHz FT-NMR	Bruker	Avance II	F		4.5'	4.5'	10'	208	30			x	x	x	x				x					x									replacement is needed, 9.3 Tesla Magnet, No ferromagnetic objects within 5m side to side top and bottom, health hazard for heart pacer, no vibration, plus spectrometer size W2'xL3'xH5.5'
		PHL-0405					E	Isotemp refrigerator/freezer - Fisher Scientific	Fisher Scientific		F		24	25	60	120					x																				
		PHL-0405					E	Gravity Convection Oven	VWR		F																														6 cubic feet - needs replacement
		PHL-0403					E	Explosion Proof Refrigerator	Fisher Scientific		F		33	37	71	120																									electronics on exterior - wired directly in wall
		PHL-0410					E	Explosion Proof Refrigerator	Fisher Scientific		F		33	37	71	120																									electronics on exterior - wired directly in wall
		PHL-0410					E	Explosion Proof Refrigerator	Fisher Scientific		F		33	37	71	120																									electronics on exterior - wired directly in wall
		PHL-0410					E	Explosion Proof Refrigerator	Fisher Scientific		F		33	37	71	120																									electronics on exterior - wired directly in wall
		PHL-0410					E	Explosion Proof Refrigerator	Fisher Scientific		F		33	37	71	120																									electronics on exterior - wired directly in wall
		PHL-0440					E	Laser Table	Thorlabs		F	000	4 ft	10 ft	4 ft																										
		PHL 407					E	Fisher Isotemp Muffle Furnace	Fisher Scientific		B	50 lb	25	35	30	250	30			x									x												
		PHL 477					E	Thermolyne Muffle furnace	Thermolyne	1500	B	50 lb	15	25	30	125	20												x												

Group: Computer Science

Date ***1-Jan-21***

*None of the items would need special power or extra space

Utility Legend

NEMA = Special Plug Type	PW = Purified Water	HE = Helium	
GEN = Generator Power	CA = Compressed Air	N2 = Nitrogen	
UPS = Uninterruptible Power	VAC = Vacuum	ChW = Chilled Water	
ALR = Alarm	EXH = Local Exhaust	CS = Clean Steam	
CW = Cold Water	HV = High Vacuum	STM = Steam	
HW = Hot Water			

Specialty Gases Legend

SG1 =	INSERT NAME
SG2 =	INSERT NAME
SG3 =	INSERT NAME
SG4 =	INSERT NAME
SG5 =	INSERT NAME

											Mounting		Dimensions			Electrical							Utilities and Gases																	Remarks
Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No	Bench / Floor	Weight	Width	Depth	Height	Volts	Amps	Watts	Phase	NEMA	GEN	UPS	ALR	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5	
EXAMPLE							F	Refrigerator	Puffer Hubbard	FC430A	F		34	37	78	115	14		1		x	x	x																	
		PHL-0170		2627133				RACKMOUNT TSP7046GT-TRF-4UX565																																	
		PHL-0170		2654748				Dell Poweredge																																	
		PHL-0170		4000258				Dell Poweredge R570																																	
		PHL-0218		4000387				High Resistance Electrometer																																	
		PHL-0170		2641728				WS-C3750G-48TS-S CATALYST																																	
		PHL-0170		2641729				WS-3750G-48TS-S CATALYST																																	
		PHL-0170		2641730				WS-3750G-48TS-S CATALYST																																	
		PHL-0170		2641751				POWEREDGE 2950 SERVER																																	

Group: Geography & Anthroplogy

Date ***1-Jan-21***

*None of the items would need special power or extra space

Utility Legend

NEMA = Special Plug Type	PW = Purified Water	HE = Helium	
GEN = Generator Power	CA = Compressed Air	N2 = Nitrogen	
UPS = Uninterruptible Power	VAC = Vacuum	ChW = Chilled Water	
ALR = Alarm	EXH = Local Exhaust	CS = Clean Steam	
CW = Cold Water	HV = High Vacuum	STM = Steam	
HW = Hot Water			

Specialty Gases Legend

SG1 =	INSERT NAME
SG2 =	INSERT NAME
SG3 =	INSERT NAME
SG4 =	INSERT NAME
SG5 =	INSERT NAME

											Mounting		Dimensions			Electrical							Utilities and Gases																		Remarks
Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No	Bench / Floor	Weight	Width	Depth	Height	Volts	Amps	Watts	Phase	NEMA	GEN	UPS	ALR	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5	
EXAMPLE							F	Refrigerator	Puffer Hubbard	FC430A	F		34	37	78	115	14		1		x	x	x																			
		PHL-0282		2627191				GILSON GA-6 SIFTER																																		
		PHL-0282		2627192				GILSON GA-6 SIFTER																																		
		PHL-0282		2627194				GROUND PENETRATING RADAR SYST																																		
		FAC-LOT		2640974				GEOPROBE 540MT DIR SOIL PROBE																																		
		PHL-0267		2651262				TOPCON TOTAL STATION SURVEY SY																																		
		PHL-0254		2651263				2007 HONDA 4 TRAX ATV																																		
		PHL-0267		4000423				FLIR Tau Lens Geosnap system																																		
		PHL-0254		4000444				DELL PRECISION WORKSTATION																																		
		PHL-0266		4000446				Dell Precision 7820 Worksta.																																		
		PHL-0254		4000447				PRECISION 7820 WORKSTATION																																		
		PHL-0275B		4000448				PRECISION WORKSTATION 7820																																		
		PHL-0266		4000697				Precision 7820 Tower																																		
		PHL-266A		4000736				Precision 7820 Tower																																		

Group: Geology

Date ***29-Jan-21***

Utility Legend

NEMA = Special Plug Type	PW = Purified Water	HE = Helium	
GEN = Generator Power	CA = Compressed Air	N2 = Nitrogen	
UPS = Uninterruptible Power	VAC = Vacuum	ChW = Chilled Water	
ALR = Alarm	EXH = Local Exhaust	CS = Clean Steam	
CW = Cold Water	HV = High Vacuum	STM = Steam	
HW = Hot Water			

Specialty Gases Legend

SG1 =	INSERT NAME
SG2 =	INSERT NAME
SG3 =	INSERT NAME
SG4 =	INSERT NAME
SG5 =	INSERT NAME

												Mounting		Dimensions			Electrical							Utilities and Gases																Remarks
Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No		Bench / Floor	Weight	Width	Depth	Height	Volts	Amps	Watts	Phase	NEMA	GEN	UPS	ALR	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5	
EXAMPLE							F	Refrigerator	Puffer Hubbard	FC430A		F		34	37	78	115	14		1		x	x	x																		
Standard Instrumentation - Benchtop																																								
		PHL-152		2637710				TOBII T60 EYE TRACKER HARDWARE																																		
		PHL-167G		2640949				NORAN D-7301 SPECTRAL IMAGING																																		
		PHL-175		4000312				Trans. Reflected Microscope																																		
		PHL-219		4000471				Nikon Petrographic Microscope						ALL CONVENTIONAL BENCHTOP WITH STANDARD ELECTRICAL CONFIGURATIONS																														
		PHL-219		4000472				Nikon Petrographic Microscope																																		
		PHL-175a		2627175				OLYMPUS LEEDS SZH10-ILLD MICROSCOPE																																		
		PHL-175a		2641231				BX-50 POLARIZED LIGHT MICRO																																		
		PHL-175A						OLYMPUS SZX9 MACROSCOPE																																		
		PHL-175						OLYMPUS PETROGRAPHIC MICROSCOPES																																		
		PHL-219						In-Situ AQUA Troll 600 Multiparameter Sonde																																		
Geophysical Equipment																																								
		PHL-280		2635199				DATALOGGER CR10X (RACE ST)																																		
		Phillips Hall Storage Shed		2604404				CONDUCTIVITY METER GEONICS 34																																		
		Phillips Hall Storage Shed		2605607				GAMMA RAY LOGGER MOD. GR-86																																		
		Phillips Hall Storage Shed		2612686				MAGNETOMETER GEOMETRICS																																		
		Phillips Hall Storage Shed		2618415				TERRAMETER MODEL SAS300C																																		
		PHL-127B		2646897				GROUND PENETRATION RADAR SYST						ALL CONVENTIONAL BENCHTOP WITH STANDARD ELECTRICAL CONFIGURATIONS																														
		PHL-127B		2641678				USED PULSE EKKO 25MHZ ANTENNA																																		
		PHL-280		2641009				TIME DOMAIN REFLECTOMETER SYS																																		
		PHL-127B		2654210				MCT DETECTOR HS.25MMSQ																																		
		PHL-280		4000248				Geometrics 12 ch Seismograph																																		
		N/A		2641689				EM38-DD GROUND CONDUCT METER																																		
Rock Preparation Equipment																																								
		PHL-485		4000411				Enclosed Shatterbox w/ Grinder				F	300	32	32	36	110													X											
		PHL-118		2627758				GEMINI GOLD TABLE MODEL G60				F	150	32	72	36	110									X														
		PHL-127b		2620956				BICO ENCLOSED SHATTERBOX/RING MILL				F	###	24	24	43	220			3									X	X	X										
		PHL-127B						BICO CHIPMUCK JAW CRUSHER				F	###	25	32	42	220			3									X	X	X										
		PHL-127B						BICO DISC GRINDER				F	###	37	22	23	220			1									X	X	X										
		PHL-118						MK ROCK SAW				F	200	42	24	36	110									X													
		PHL-118						BLUE M OVEN				B					110																							
		PHL-118						FRANZ MAGNETOMETER				B	350	36	20	28	110												X											
		PHL-485						IMPERIAL V LABORATORY OVEN				B					110																							
		PHL-485						BECKMAN J2MC CENTRIFUGE				B					110																							
		PHL-116						DELTECH 1ATM GAS MIXING FURNACE				B					220																							
		PHL-116						DELTECH IATM GAS STIRRING FURNACE				B					220																							
		PHL-116						COLD SEAL PRESSURE VESSELS (rack of 8)				B					110									X				X							X			
		PHL-116						SARTORIUS MICROBALANCE				B					110																							
Instrumentation to be shared with MatSci in Analytical Suite												THE MAJORITY OF THE INSTRUMENTATION BELOW IS CAPTURED ON THE MAT SCI SPREADSHEET																											
		PHL-108						FINNIGAN HIGH RES ICPMS SPECTROMETER				F																													Shared Mat Sci
		PHL-108						SAMPLER FOR ELEMENT2 SC-E2				F																													Shared Mat Sci
		PHL-108						S8 Tiger Seq Wavelength X-Ray				F																													Shared Mat Sci
		PHL-108						Haskris R175 Chiller				F																													Shared Mat Sci
		PHL-109						EXCALIBUR FASIMAGEIR FTIR SYSTEM				B																													Shared Mat Sci
		PHL-174						D8 Discover Diffractometer				F																													Shared Mat Sci
								THERMOFINNIGAN DELTAPLUS XL				F					220													X									Proposed future acquistion
		PHL-108						Laminar Flow Hood				B																													Shared Mat Sci
		PHL-108						VULCAN 3-550 MUFFLE FURNACE				B																													Shared Mat Sci
		PHL-108						THERMOFINNIGAN SORVALL ST8R CENTRIFUGE				B					110																								Shared Mat Sci
		PHL-108						FISHER SCIENTIFIC ISOTEMP OVEN				B																													Shared Mat Sci
		PHL-108						ULTRAPURE DIRECT Q 3UV-R DI MILLIPORE WATER SYSTEM				B																														Shared Mat Sci
		PHL-108						METTLER TOLEDO XPE205 DELTA RANGE BALANCE				B																														Shared Mat Sci
		PHL-108		2640948				BR AUTOFLUXER 4 FUSION MACHINE				B	75	28	24	15	110													X		X							X	X		Shared Mat Sci
		PHL-108		2645457				BR AUTOFLUXER FUSION MACHINE				B	75	28	24	15	110													X		X							X	X		Shared Mat Sci
		PHL-108						CARVER HYDRAULIC PRESS				B																													
Non-Scientific Equipment																																								
		PHL-157		2654882				Chevy Suburban																																		
		PHL-157		2654883				Chevy Suburban																																		
		PHL-157		2654884				Chevy Suburban																																		
		Phillips Hall Storage Shed						TRAILERS (n=3)																																		

Group: Materials Science & Engineering

Date 31-Jan-21

Utility Legend

NEMA = Special Plug Type | PW = Purified Water | HE = Helium
GEN = Generator Power | CA = Compressed Air | N2 = Nitrogen
UPS = Uninterruptible Power | VAC = Vacuum | ChW = Chilled Water
ALR = Alarm | EXH = Local Exhaust | CS = Clean Steam
CW = Cold Water | HV = High Vacuum | STM = Steam
HW = Hot Water

Specialty Gases Legend

SG1 = INSERT NAME
SG2 = INSERT NAME
SG3 = INSERT NAME
SG4 = Argon
SG5 = INSERT NAME

											Mounting		Dimensions			Electrical								Utilities and Gases																	Remarks
Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No	Bench / Floor	Weight	Width	Depth	Height	Volts	Amps	Watts	Phase	NEMA	GEN	UPS	ALR	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5	
EXAMPLE							F	Refrigerator	Puffer Hubbard	FC430A	F		34	37	78	115	14		1		x	x	x																			
		PHL-0102		4000791			E	Tormach 770 CNC Milling Mach			F	600	108	96	84	108	132	84	115	20		1								x											
		PHL-0106		4000561			E	Stratasy F170 Printer	Stratasys	F170	F	500	36	54	78	36	54	78	120	15																					
		PHL-0106		4000496			E	MarkOne 3-D Printer	Markforged	Mark Two	B	35	23	13	14	23	30	30	120	2	##																				
		PHL-0106		4000495			E	uPrint 3-D printer	Stratasys	uPrint SE Plus	B	130	26	26	30	31	31	47	120	12	##																				
		PHL-0106					E	FormLabs Form 3 - SLA 3D printer	Formlabs	Form3	B	39	16	21	21	18	30	30	00-24	3																				
		PHL-0106					E	Formlabs Form 2 - SLA 3D printer	Formlabs	Form2	B	39	16	21	21	18	30	30	00-24	3																				
		PHL-0106					E	Ultimaker S5 - 3D Printer	Ultimaker	218252	B	64	23	27	36	30	30	36	240	5	##																				
		PHL-0106					E	Ultimaker S5 - 3D Printer	Ultimaker	218252	B	64	23	27	36	30	30	36	240	5	##																				
		PHL-0106					E	SCA 1200 HT - 3d printer solvent tank	Stratasys	SCA 1200	B	64	18	26	21	18	26	40	20-24	15																				
		PHL-0106		4000497			E	GS-5T Injection Molding Press	Via Biomedical	GS-5T	B	250	30	24	24	30	30	30	110											x											
		PHL-0106		4000522			E	Laboratory Mixing Extruder	Dynisco	LME-120	B	120	19	24	9	30	42	18	120	5		1					X														
		PHL-0106		4000523			E	Pelletizing Chopper System	Dynisco	LEC-120	B	30	12	12	18	18	18	18	120			1																			
		PHL-0106		4000533			E	Power Cut 10x Cut-off Saw	Allied High Tech	5-4200	F	168	48	60	84	48	60	84	230	15	##	3					X														
		PHL-0106		4000492			E	Melter- RDO Model LC12	RDO Induction LLC	LC-12 Furnace	F	100	29	19	17	72	60	84	220	32	##	3					X								X							
		PHL-0106		4000795			E	Lindberg/Blue Mtn BF51433PC-1	Lindberg/Blue M	BF51422PC-1	B	320	25	26	29	36	36	41	08/24	27		1																			
		PHL-0106		4000491			E	Rolling Mill	International Rolling Mills	3x4	F	3500	120	84	67	120	84	78	240	15		3																			
		PHL-0106					E	Thermo Linberg 1200C Oven	Lindberg/Blue M	BF51842PBFMC-1	B	280	29	29	33	36	55	48	08/24	25	##	1													X							
		PHL-0106		4000531			E	TechPress 2 Mounting Press	Allied High Tech	30-1000	B	98	24	36	36	30	36	36	115	15	##	1									X											
		PHL-0106		4000532			E	TechPress 2 Mounting Press	Allied High Tech	30-1000	B	98	24	36	36	30	36	36	115	15	##	1									X											
		PHL-0106		4000528			E	TwinPrep 5 Grinder/ Polisher	Allied High Tech	5-7600	B	119	36	36	9	36	36	24	00-24	7		1																			
		PHL-0106		4000529			E	TwinPrep 5 Grinder/ Polisher	Allied High Tech	5-7600	B	119	36	36	9	36	36	24	00-24	7		1																			
		PHL-0106		4000530			E	TwinPrep 5 Grinder/ Polisher	Allied High Tech	5-7600	B	119	36	36	9	36	36	24	00-24	7		1																			
		PHL-0106		2654747			E	MetPrep 3 Automatic Polisher	Allied High Tech	5-2500	B	148	36	36	36	36	36	36	115	4	##	1																			
		PHL-0106					E	M-prep 5 Manual Polisher	Allied High Tech	5-2200	B	58	15	26	9	24	36	24	00/24	6/3		1					X														
		PHL-0106					E	M-prep 5 Manual Polisher	Allied High Tech	5-2200	B	58	15	26	9	24	36	24	00/24	6/3		1					X														
		PHL-0106		4000524			E	Olympus Microscope BX51TRF-6	Olympus	BX51	B	140	30	30	72	30	30	72	120																					
		PHL-0106		4000518			E	Olympus Microscope BX51TRF-6	included in row 38		B																															
		PHL-0108		4000796			E	Anton Par Multiwave Pro	Anton Parr	Multiwave Pro	B	72	24	28	30	24	50	30	230	20	##												X								
		PHL-0108		4000255			E	Haskris R175 Chiller	Haskris	LX3-W2	F	254	19	34	34	19	40	34	08-23	25							X													
		PHL-0108		4000159			E	S8 Tiger Seq Wavelength X-Ray	Bruker	S8	F	983	54	34	41	156	96	72	208	20														X						
		PHL-0108					E	Laminar Flow Hood	Safeaire	54L934	F	300	84	35	96	84	54	96	115	15																				
		PHL-0108					E	Millipore Water System	Millipore	Direct Q 3UV-R	B	20	24	24	30	24	24	30	120	1							X														
		PHL-0108C		2637728			E	FINNIGAN HIGH RES ELEMENT2 SC-E2	Thermo Fisher	Element 2	F	1656	84	48	56	146	96	56	230	V/phase		3			X		X					X	X			X				X
		PHL-0108C		2640975			E	SAMPLER FOR ELEMENT2 SC-E2	See Above - Row 45	Integral to line 45	x																															
		PHL-0110					E	Haskris Chiller for ICP-MS	Haskris	RO75	F	350	30	40	33	40	45	40	208						X		X													
		PHL-0167					E	Refridgerator	Signature		F		36	60	66	60	60	66	115																				
		PHL-0167					E	PureAir HLF - Laminar Flow Hood	Air Science	Purair-HFL	F		72	36	78	72	72	78	115																						
		PHL-0167		2627554			E	CRITICAL POINT DRIER EMS850	Electron Microscopy Sciences	EMS 850	F		30	30	24	48	48	24	115	4																				x
		PHL-0167		721181			E	Blue M Oven - epoxy cure	Blue M Electric Co	Single Wall Transite Ove	B		24	30	36	36	60	36	115																						
		PHL-0167					E	Metallographic Dry Box	CleaTech		B		24	24	48	36	60	48	115	1																					
		PHL-0167		2654684			E	Olympus BX51 Microscope	Olympus	BX-51	F		84	48	60	96	72	60	115																					
		PHL-0167					E	Olympus SZ61 Microscope	Olympus	SZ-61	F		With Line 53						115																					
		PHL-0167					E	PF-SW-UPG-2Pathfinder Software	ThermoNoran	Pathifnder Software	x		Intregal part of row 78					No Power																					
		PHL-0167A		2652262			E	SCANNING AUGER NANOPROBE 680	Physical Electronics	AES-680	F		216	96	96	216	114	96	240	60					x					x									x		
		PHL-0167A		2635309			E	TRIBOINDENTER TI-900	Hysitron	TI-900	F		84	60	72	120	138	72	115																						
		PHL-0167A		4000187			E	Hardness Tester - WILSON	Wilson	Tukon 1202	B		24	30	36	60	60	36	115																						
		PHL-0167A					E	Rockwell Hardness Tester	Mitutoyo	HR-530	B		24	30	36	60	60	36	115																						
		PHL-0167B					E	Binder Oven 300C	Binder	300C Drying Oven	B		24	30	30	36	60	30	115																						
		PHL-0167B					E	Binder Oven 300C	Binder	300C Drying Oven	B		24	30	30	36	60	30	115																						
		PHL-0167B					E	Die Press		Die Press	B		24	30	36	36	48	36	o Power																					
		PHL-0167B					E	Barnstead Nanopure II	Wall-Mounted	Nanopure II	W		48	12	36	48	12	36	115																						
		PHL-0167B					E	Haskris Chiller for TEM	Haskris		F		60	66	48	60	66	48	240	30				x		x		x												
		PHL-0167B					E	VWR Vacuum Oven	VWR	Symphony	B		30	30	24	36	66	24	115																						
		PHL-0167C		2627121			E	JEOL JEM-2010/SEG/SIP/DP	JEOL	JEM-2010	F		192	144	120	216	156	120	240	60					x																
		PHL-0167C		2654235			E	AMT CAMERA XR42	AMT	XR42	x		ntregal part of row 66						115																					
		PHL-0167C		4000777			E	Low Mount TEM CMOS XR280L-A2	AMT	XR280L-A2	x		ntregal part of row 66						115																					
		PHL-0167D		4000409			E	Nikon Confocal Microscope	Nikon	A1r	F		108	54	72	108	54	72	115																						
		PHL-0167D		4000414			E	OLS4100 Laser Conf System	Olympus	OLS 4100	F		72	60	54	72	84	54	115																						
		PHL-0167E		2622484			E	ULTRA MICROTOME 970224	Leica	Ultracut UCT	F		60	48	60	60	72	60	115																						
		PHL-0167F		2654685			E	Techpress 2 Hydraulic-pneumati	Allied High Tech	Techpress 2	B		36	24	30	36	60	30	115											x	x										
		PHL-0167F		2654683			E	Buehler vibratory Polisher	Buehler	Vibromet 2	B		24	30	36	36	60	36	115																						
		PHL-0167F		4000048			E	Metprep 3 Grinder/Polisher	Allied High Tech	Metprep 3	B		30	36	24	42	60	24	115											x										
		PHL-0167F		4000385			E	Vibromet 2 Vibratory Polisher	Buehler	Vibromet 2	B		24	30	36	36	60	36	115																						
		PHL-0167F					E	MetPrep 3 Automatic Polisher	Allied High Tech	MetPrep 3 Auto	B		30	36	36	42	60	36	115											x	x										
		PHL-0167F					E	Techcut 4 - Diamond Slow-saw	Allied High Tech	TechCut 4	B		24	30	24	30	72	24	115																						
		PHL-0167G		2654694			E	Hitachi Variable Pressure SEM - S3400	Hitachi	S-3400N	F		108	84	66	132	132	66	240	30										x										
		PHL-0167G		2640949			E	NORAN D-7301 SPECTRAL IMAGING	Thermo Noran	D-7301	x		ntregal part of row 78						115																					
		PHL-0167G		4000163			E	Vacuum Compatible 4 miBot Sys	Imina Tech	miBot	x		ntregal part of row 78						115																					
		PHL-0167G		4000553			E	Hitachi S4500 FE-SEM	Hitachi	S-4500	F		144	84	72	144	144	72	240	30					x					x										
		PHL-0167G		2637727			E	AUTO 306 VACUUM BASE - Evaporator	Edwards	Auto 306	F		72	48	84	72	72	84	240	20			x																		
		PHL-0167G		2654351			E	DENTON DESK TAR001-0158-120V	Denton	Desk V	B		48	24	36	48	54	36	115																						x
		PHL-0167G		4000450			E	Gen5 Arm2 Model	Deben	Gen5 BSE	Intregal part of row 81																														
		PHL-0167G		4000794			E	PF-ALPINE ANALYZER	Thermo Noran	ANALYZER Drying ALPINE	Intregal part of row 81							115																						
		PHL-0167G		2635080			E	Pfeiffer HiPace 300	Pfeiffer	HiPace 300	F		ntregal part of row 82						115																					
		PHL-0168		2627158			E	TUBE FURNACE STT-1700-3-6	SentroTech	SST-1700-3-6	B		72	30	36	72	48	36	208	25			x																		x
		PHL-0168		2654688			E	3 Zone furnace control	Lindberg	Blue M	B		132	48	30	132	60	30	240	60																						
		PHL-0168		4000044			E	HiCube 80 Eco	Pfeiffer	HiCube 80	B		24	24	30	24	24	30	115	4																						

Group: Materials Science & Engineering

Date 31-Jan-21

Utility Legend

NEMA = Special Plug Type
GEN = Generator Power
UPS = Uninterruptible Power
ALR = Alarm
CW = Cold Water
HW = Hot Water
PW = Purified Water
CA = Compressed Air
VAC = Vacuum
EXH = Local Exhaust
HV = High Vacuum
HE = Helium
N2 = Nitrogen
ChW = Chilled Water
CS = Clean Steam
STM = Steam

Specialty Gases Legend

SG1 = INSERT NAME
SG2 = INSERT NAME
SG3 = INSERT NAME
SG4 = Argon
SG5 = INSERT NAME

											Mounting		Dimensions			Electrical						Utilities and Gases																		Remarks
Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No	Bench / Floor	Weight	Width	Depth	Height	Volts	Amps	Watts	Phase	NEMA	GEN	UPS	ALR	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5	
		PHL-0168					E	Haskris Chiller of Tube Furnace	Haskris	R033	F		24	36	36	24	36	36	115	15																					
		PHL-0171		2654524			E	NANOSURF DYNAMIC FORCE NSO1759 - AFM	NanoScience	EasyScan II	x		36	24	96	36	48	96	115																								
		PHL-0171		2654523			E	NANOSURF DYNAMIC FORCE NSO1759 - AFM	N/A - Storable, bench	EasyScan II	x	Stored with Line 91							115																							
		PHL-0171		2654211			E	NANOSURF EASYSCAN 2 BASIC - AFM	N/A - Storable, bench	EasyScan II	x	Stored with Line 91							115																							
		PHL-0171		2654220			E	NANOSCAN EASYSCAN 2 BASIC - AFM	N/A - Storable, bench	EasyScan II	x		Stored with Line 91						115																							
		PHL-0171		2654213			E	NANOSURF EASYSCAN 2 BASIC - AFM	N/A - Storable, bench	EasyScan II	x		Stored with Line 91						115																							
		PHL-0171		2654214			E	NANOSURF EASYSCAN 2 BASIC - AFM	N/A - Storable, bench	EasyScan II	x		Stored with Line 91						115																							
		PHL-0171		2654215			E	NANOSURF EASYSCAN HIGH RES - AFM	N/A - Storable, bench	EasyScan II	x		Stored with Line 91						115																							
		PHL-0171		2641391			E	NANOSURF EASYSCAN MOD NS60100P - AFM	N/A - Storable, bench	EasyScan II	x		Stored with Line 91						115																							
		PHL-0171		2654521			E	ATOMIC FORCE NS60100 - AFM	N/A - Storable, bench	AFM Vib. Table	x		Stored with Line 91						115																							
		PHL-0171		2654522			E	ATOMIC FORCE NS60100 - AFM	N/A - Storable, bench	AFM Vib. Table	x		Stored with Line 91						115																							
		PHL-0171		2654525			E	ISOSTAGE TABLE NSO3419 - AFM	N/A - Storable, bench	AFM Vib. Table	x		Stored with Line 91						115																							
		PHL-0171		2654526			E	ISOSTAGE TABLE NSO3419 - AFM	N/A - Storable, bench	AFM Vib. Table	x		Stored with Line 91						115																							
		PHL-0171		2655042			E	Q20 DSC System	TA instruments	Q20	B		96	30	36	96	60	36	115											x										x		
		PHL-0171		2655041			E	Q50 TGA	TA Instruments	Q50	B		Colocated with line 103 footpri			36	115														x								x		
		PHL-0171		4000247			E	FTIR Spectrometer IS50r	Thermo Nicholet	IS50r	B		90	36	36	96	60	36	115																							
		PHL-0171		2655036			E	Confocal Raman Microscope - Horiba	Horiba	Explora	F		84	72	72	84	108	72	115																							
		PHL-0171					E	Cary 60 UV-Vis Spectrometer	Agilent	Cary 60	B		72	30	36	84	60	36	115																							
		PHL-0171		2654225			E	CARY 50 BIO SPECTROPHOTOMETER	Varian	Cary 50	B		72	30	36	84	60	36	115																							
		PHL-0171		2627145			E	PERKINELMER LS55	Perkin Elmer	Ls 55	B		72	30	24	96	54	24	115																							
		PHL-0171					E	VWR Symphony Oven 300C	VWR	Symphony 300C	B		36	36	42	48	54	42	115		##																					
		PHL-0171		2627132			E	KW-4A SPIN COATER	Chemat Tech.	KW-4A	B		24	24	18	36	60	18	115																							
		PHL-0173					E	FTIR Microscope	Digilab	UMA 600	B		108	36	36	108	60	36	115																							
		PHL-0174		2637795			E	PHOIBOS 150 MCD ENERGY ANALIZE - XPS	Custom - Specs XPS	Custom	F		204	168	96	204	216	96	115	60	breakers)				x						x								x		x
		PHL-0174		2651750			E	XR-50 X-RAY SOURCE - XPS	SEE ABOVE - Row 113	XPS - XR-50	x	tregal part of row 113							115	60																			x		x
		PHL-0174		2637796			E	XR50 HI-PERFORM XRAY SOURCE - XPS	SEE ABOVE - Row 113	XPS - XR-50	x	tregal part of row 113							115																							
		PHL-0174		2637698			E	LEED SPEC4/254/45MM - XPS	SEE ABOVE - Row 113	XPS - LEED	x	tregal part of row 113							115																							
		PHL-0174		2637797			E	UHV SURFACE ANALYSIS CHAMBER - XPS	SEE ABOVE - Row 113	XPS Chamber	x	tregal part of row 113							115																							
		PHL-0174		2641201			E	PREP CHAMBER MANIPULATOR - XPS	SEE ABOVE - Row 113	XPS Manipulator	x		Intregal part of row 113						115																							
		PHL-0174		2637697			E	FLOOD GUN PKG FG 15/40 - XPS	SEE ABOVE - Row 113	XPS - FG-15	x		Intregal part of row 113						115																							
		PHL-0174		2637800			E	ION SOURCE PKG P-IQE - XPS	SEE ABOVE - Row 113	XPS - IQE	x		Intregal part of row 113						115																							
		PHL-0174		2631030			E	ION PUMP DBL ENDED L/S D-I - XPS	SEE ABOVE - Row 113	XPS - IonPump	x		Intregal part of row 113						115																							
		PHL-0174		2637794			E	DIGITEL ION PUMP CONTROLLER - XPS	SEE ABOVE - Row 113	XPS Ion Pump Controlle	x		Intregal part of row 113						115																							
		PHL-0174		2637799			E	100AMU RESIDUAL GAS ANALYZER - XPS	SEE ABOVE - Row 113	XPS - RGA	x		Intregal part of row 113						115																							
		PHL-0174		2641191			E	ANALYSIS MANIPULATOR +/-1.0" - RGA	SEE ABOVE - Row 113	XPS - RGA manipulator	x		Intregal part of row 113						115																							
		PHL-0174		2614813			E	QUADRUPOLE 100C MASS SPEC(6278) - RGA	SEE ABOVE - Row 113	XPS - QMS	x		Intregal part of row 113						115																							
		PHL-0174		2635355			E	D8 Discover Diffractometer	Bruker	D8 Discover	F		156	132	84	156	187	84	240	60								x													
		PHL-0174		2651517			E	ATOMIC FORCE MICROSCOPE (AsylumR)	Asylum Research	MFP-3D	F		72	120	78	72	120	78	115																							
		PHL-0174		4000386			E	RAME-HART - TENSIONMETER	Rame Hart	250-U1	B		84	30	24	84	66	24	115																							
		PHL-0174		2651749			E	NITON X-RAY XL3T FLURENSCENCE	Thermo Niton	XL3T	B		48	24	30	96	102	30	115																							
		PHL-0102		4000791			E	Tormach 770 CNC Milling Mach			F	600	108	96	84	108	132	84	115	20		1								x										
		PHL-0106		4000561			E	Stratasy F170 Printer	Stratasys	F170	F	500	36	54	78	36	54	78	120	15																						
		PHL-0106		4000496			E	MarkOne 3-D Printer	Markforged	Mark Two	B	35	23	13	14	23	30	30	120	2	##																					
		PHL-0106		4000495			E	uPrint 3-D printer	Stratasys	uPrint SE Plus	B	130	26	26	30	31	31	47	120	12	####																					
		PHL-0106					E	FormLabs Form 3 - SLA 3D printer	Formlabs	Form3	B	39	16	21	21	18	30	30	00-24	3																					
		PHL-0106					E	Formlabs Form 2 - SLA 3D printer	Formlabs	Form2	B	39	16	21	21	18	30	30	00-24	3																					
		PHL-0106					E	Ultimaker S5 - 3D Printer	Ultimaker	218252	B	64	23	27	36	30	30	36	240	5	##																					
		PHL-0106					E	Ultimaker S5 - 3D Printer	Ultimaker	218252	B	64	23	27	36	30	30	36	240	5	##																					
		PHL-0106					E	SCA 1200 HT - 3d printer solvent tank	Stratasys	SCA 1200	B	64	18	26	21	18	26	40	20-24	15																					
		PHL-0106		4000497			E	GS-5T Injection Molding Press	Via Biomedical	GS-5T	B	250	30	24	24	30	30	30	110										X											
		PHL-0106		4000522			E	Laboratory Mixing Extruder	Dynisco	LME-120	B	120	19	24	9	30	42	18	120	5		1					X													
		PHL-0106		4000523			E	Pelletizing Chopper System	Dynisco	LEC-120	B	30	12	12	18	18	18	18	120			1																		
		PHL-0106		4000533			E	Power Cut 10x Cut-off Saw	Allied High Tech	May-00	F	168	48	60	84	48	60	84	230	15	####	3					X													
		PHL-0106		4000492			E	Melter- RDO Model LC12	RDO Induction LLC	LC-12 Furnace	F	100	29	19	17	72	60	84	220	32	####	3					X													
		PHL-0106		4000795			E	Lindberg/Blue Mtn BF51433PC-1	Lindberg/Blue M	BF51422PC-1	B	320	25	26	29	36	36	41	08/24	27		1																		
		PHL-0106		4000491			E	Rolling Mill	International Rolling Mills	3x4	F	3500	120	84	67	120	84	78	240	15		3																		
		PHL-0106					E	Thermo Linberg 1200C Oven	Lindberg/Blue M	BF51842PBFMC-1	B	280	29	29	33	36	55	48	08/24	25	####	1									X									
		PHL-0106		4000531			E	TechPress 2 Mounting Press	Allied High Tech	30-1000	B	98	24	36	36	30	36	36	115	15	####	1								X										
		PHL-0106		4000532			E	TechPress 2 Mounting Press	Allied High Tech	30-1000	B	98	24	36	36	30	36	36	115	15	####	1								X										
		PHL-0106		4000528			E	TwinPrep 5 Grinder/ Polisher	Allied High Tech	May-00	B	119	36	36	9	36	36	24	00-24	7		1																		
		PHL-0106		4000529			E	TwinPrep 5 Grinder/ Polisher	Allied High Tech	May-00	B	119	36	36	9	36	36	24	00-24	7		1																		
		PHL-0106		4000530			E	TwinPrep 5 Grinder/ Polisher	Allied High Tech	May-00	B	119	36	36	9	36	36	24	00-24	7		1																		
		PHL-0106		2654747			E	MetPrep 3 Automatic Polisher	Allied High Tech	May-00	B	148	36	36	36	36	36	36	115	4	##	1																		
		PHL-0106					E	M-prep 5 Manual Polisher	Allied High Tech	May-00	B	58	15	26	9	24	36	24	00/24	##		1					X												
		PHL-0106					E	M-prep 5 Manual Polisher	Allied High Tech	May-00	B	58	15	26	9	24	36	24	00/24	##		1					X												
		PHL-0106		4000524			E	Olympus Microscope BX51TRF-6	Olympus	BX51	B	140	30	30	72	30	30	72	120																					
		PHL-0106		4000518			E	Olympus Microscope BX51TRF-6	included in row 38		B	included in row 38																												
		PHL-0108		4000796			E	Anton Par Multiwave Pro	Anton Parr	Multiwave Pro	B	72	24	28	30	24	50	30	230	20	####										X									
		PHL-0108		4000255			E	Haskris R175 Chiller	Haskris	LX3-W2	F	254	19	34	34	19	40	34	08-23	25							X												
		PHL-0108		4000159			E	S8 Tiger Seq Wavelength X-Ray	Bruker	S8	F	983	54	34	41	156	96	72	208	20												X						
		PHL-0108					E	Laminar Flow Hood	Safeaire	54L934	F	300	84	35	96	84	54	96	115	15																				
		PHL-0108					E	Millipore Water System	Millipore	Direct Q 3UV-R	B	20	24	24	30	24	24	30	120	1							X												
		PHL-0108C		2637728			E	FINNIGAN HIGH RES ELEMENT2 SC-E2	Thermo Fisher	Element 2	F	1656	84	48	56	146	96	56	230	1/phase	3				X			X				X	X			X			X
		PHL-0108C		2640975			E	SAMPLER FOR ELEMENT2 SC-E2	See Above - Row 45	Integral to line 45	x																														
		PHL-0110					E	Haskris Chiller for ICP-MS	Haskris	R075	F	350	30	40	33	40	45	40	208						X		X												
		PHL-0167					E	Refridgerator	Signature		F		36	60	66	60	60	66	115																				
		PHL-0167					E	PureAir HLF - Laminar Flow Hood	Air Science	Purair-HFL	F		72	36	78	72	72	78	115																						
		PHL-0167		2627554			E	CRITICAL POINT DRIER EMS850	Electron Microscopy Sciences	EMS 850	F		30	30	24	48	48	24	115	4																					x

Group: Materials Science & Engineering

Date 31-Jan-21

Utility Legend

NEMA = Special Plug Type | PW = Purified Water | HE = Helium
GEN = Generator Power | CA = Compressed Air | N2 = Nitrogen
UPS = Uninterruptible Power | VAC = Vacuum | ChW = Chilled Water
ALR = Alarm | EXH = Local Exhaust | CS = Clean Steam
CW = Cold Water | HV = High Vacuum | STM = Steam
HW = Hot Water

Specialty Gases Legend

SG1 = INSERT NAME
SG2 = INSERT NAME
SG3 = INSERT NAME
SG4 = Argon
SG5 = INSERT NAME

											Mounting		Dimensions			Electrical							Utilities and Gases																Remarks
Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No	Bench / Floor	Weight	Width	Depth	Height	Volts	Amps	Watts	Phase	NEMA	GEN	UPS	ALR	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5	
		PHL-0167		721181			E	Blue M Oven - epoxy cure	Blue M Electric Co	Single Wall Transite Ove	B		24	30	36	36	60	36	115																						
		PHL-0167					E	Metallographic Dry Box	CleaTech		B		24	24	48	36	60	48	115	1																					
		PHL-0167		2654684			E	Olympus BX51 Microscope	Olympus	BX-51	F		84	48	60	96	72	60	115																					
		PHL-0167					E	Olympus SZ61 Microscope	Olympus	SZ-61	F		With Line 53						115																					
		PHL-0167					E	PF-SW-UPG-2Pathfinder Software	ThermoNoran	Pathifnder Software	x		Intregal part of row 78					No Power																					
		PHL-0167A		2652262			E	SCANNING AUGER NANOPROBE 680	Physical Electronics	AES-680	F		216	96	96	216	114	96	240	60					x					x								x		
		PHL-0167A		2635309			E	TRIBOINDENTER TI-900	Hysitron	TI-900	F		84	60	72	120	138	72	115																					
		PHL-0167A		4000187			E	Hardness Tester - WILSON	Wilson	Tukon 1202	B		24	30	36	60	60	36	115																					
		PHL-0167A					E	Rockwell Hardness Tester	Mitutoyo	HR-530	B		24	30	36	60	60	36	115																					
		PHL-0167B					E	Binder Oven 300C	Binder	300C Drying Oven	B		24	30	30	36	60	30	115																					
		PHL-0167B					E	Binder Oven 300C	Binder	300C Drying Oven	B		24	30	30	36	60	30	115																					
		PHL-0167B					E	Die Press		Die Press	B		24	30	36	36	48	36	o Power																					
		PHL-0167B					E	Barnstead Nanopure II	Wall-Mounted	Nanopure II	W		48	12	36	48	12	36	115																					
		PHL-0167B					E	Haskris Chiller for TEM	Haskris		F		60	66	48	60	66	48	240	30				x				x		x									
		PHL-0167B					E	VWR Vacuum Oven	VWR	Symphony	B		30	30	24	36	66	24	115												x	x							
		PHL-0167C		2627121			E	JEOL JEM-2010/SEG/SIP/DP	JEOL	JEM-2010	F		192	144	120	216	156	120	240	60					x									x					
		PHL-0167C		2654235			E	AMT CAMERA XR42	AMT	XR42	x		Intregal part of row 66						115																					
		PHL-0167C		4000777			E	Low Mount TEM CMOS XR280L-A2	AMT	XR280L-A2	x		Intregal part of row 66						115																					
		PHL-0167D		4000409			E	Nikon Confocal Microscope	Nikon	A1r	F		108	54	72	108	54	72	115												x								
		PHL-0167D		4000414			E	OLS4100 Laser Conf System	Olympus	OLS 4100	F		72	60	54	72	84	54	115												x								
		PHL-0167E		2622484			E	ULTRA MICROTOME 970224	Leica	Ultracut UCT	F		60	48	60	60	72	60	115																					
		PHL-0167F		2654685			E	Techpress 2 Hydraulic-pneumati	Allied High Tech	Techpress 2	B		36	24	30	36	60	30	115										x	x										
		PHL-0167F		2654683			E	Buehler vibratory Polisher	Buehler	Vibromet 2	B		24	30	36	36	60	36	115																					
		PHL-0167F		4000048			E	Metprep 3 Grinder/Polisher	Allied High Tech	Metprep 3	B		30	36	24	42	60	24	115										x										
		PHL-0167F		4000385			E	Vibromet 2 Vibratory Polisher	Buehler	Vibromet 2	B		24	30	36	36	60	36	115																					
		PHL-0167F					E	MetPrep 3 Automatic Polisher	Allied High Tech	MetPrep 3 Auto	B		30	36	36	42	60	36	115										x	x										
		PHL-0167F					E	Techcut 4 - Diamond Slow-saw	Allied High Tech	TechCut 4	B		24	30	24	30	72	24	115																					
		PHL-0167G		2654694			E	Hitachi Variable Pressure SEM - S3400	Hitachi	S-3400N	F		108	84	66	132	132	66	240	30											x								
		PHL-0167G		2640949			E	NORAN D-7301 SPECTRAL IMAGING	Thermo Noran	D-7301	x		Intregal part of row 78						115																					
		PHL-0167G		4000163			E	Vacuum Compatible 4 miBot Sys	Imina Tech	miBot	x		Intregal part of row 78						115																					
		PHL-0167G		4000553			E	Hitachi S4500 FE-SEM	Hitachi	S-4500	F		144	84	72	144	144	72	240	30					x						x								
		PHL-0167G		2637727			E	AUTO 306 VACUUM BASE - Evaporator	Edwards	Auto 306	F		72	48	84	72	72	84	240	20			x																	
		PHL-0167G		2654351			E	DENTON DESK TAR001-0158-120V	Denton	Desk V	B		48	24	36	48	54	36	115																					x
		PHL-0167G		4000450			E	Gen5 Arm2 Model	Deben	Gen5 BSE			Intregal part of row 81																											
		PHL-0167G		4000794			E	PF-ALPINE ANALYZER	Thermo Noran	ANALYZER Drying ALPINE			Intregal part of row 81						115																					
		PHL-0167G		2635080			E	Pfeiffer HiPace 300	Pfeiffer	HiPace 300	F		Intregal part of row 82						115																					
		PHL-0168		2627158			E	TUBE FURNACE STT-1700-3-6	SentroTech	SST-1700-3-6	B		72	30	36	72	48	36	208	25			x																		x
		PHL-0168		2654688			E	3 Zone furnace control	Lindberg	Blue M	B		132	48	30	132	60	30	240	60																					
		PHL-0168		4000044			E	HiCube 80 Eco	Pfeiffer	HiCube 80	B		24	24	30	24	24	30	115	4																					
		PHL-0168					E	Haskris Chiller of Tube Furnace	Haskris	R033	F		24	36	36	24	36	36	115	15																					
		PHL-0171		2654524			E	NANOSURF DYNAMIC FORCE NSO1759 - AFM	NanoScience	EasyScan II	x		36	24	96	36	48	96	115																						
		PHL-0171		2654523			E	NANOSURF DYNAMIC FORCE NSO1759 - AFM	N/A - Storable, bench	EasyScan II	x		Stored with Line 91						115																					
		PHL-0171		2654211			E	NANOSURF EASYSCAN 2 BASIC - AFM	N/A - Storable, bench	EasyScan II	x		Stored with Line 91						115																					
		PHL-0171		2654220			E	NANOSCAN EASYSCAN 2 BASIC - AFM	N/A - Storable, bench	EasyScan II	x		Stored with Line 91						115																					
		PHL-0171		2654213			E	NANOSURF EASYSCAN 2 BASIC - AFM	N/A - Storable, bench	EasyScan II	x		Stored with Line 91						115																					
		PHL-0171		2654214			E	NANOSURF EASYSCAN 2 BASIC - AFM	N/A - Storable, bench	EasyScan II	x		Stored with Line 91						115																					
		PHL-0171		2654215			E	NANOSURF EASYSCAN HIGH RES - AFM	N/A - Storable, bench	EasyScan II	x		Stored with Line 91						115																					
		PHL-0171		2641391			E	NANOSURF EASYSCAN MOD NS60100P - AFM	N/A - Storable, bench	EasyScan II	x		Stored with Line 91						115																					
		PHL-0171		2654521			E	ATOMIC FORCE NS60100 - AFM	N/A - Storable, bench	AFM Vib. Table	x		Stored with Line 91						115																					
		PHL-0171		2654522			E	ATOMIC FORCE NS60100 - AFM	N/A - Storable, bench	AFM Vib. Table	x		Stored with Line 91						115																					
		PHL-0171		2654525			E	ISOSTAGE TABLE NSO3419 - AFM	N/A - Storable, bench	AFM Vib. Table	x		Stored with Line 91						115																					
		PHL-0171		2654526			E	ISOSTAGE TABLE NSO3419 - AFM	N/A - Storable, bench	AFM Vib. Table	x		Stored with Line 91						115																					
		PHL-0171		2655042			E	Q20 DSC System	TA instruments	Q20	B		96	30	36	96	60	36	115																					x
		PHL-0171		2655041			E	Q50 TGA	TA Instruments	Q50	B		Colocated with line 103 footpri						36	115												x								x
		PHL-0171		4000247			E	FTIR Spectrometer IS50r	Thermo Nicholet	IS50r	B		90	36	36	96	60	36	115																					
		PHL-0171		2655036			E	Confocal Raman Microscope - Horiba	Horiba	Explora	F		84	72	72	84	108	72	115																					
		PHL-0171					E	Cary 60 UV-Vis Spectrometer	Agilent	Cary 60	B		72	30	36	84	60	36	115																					
		PHL-0171		2654225			E	CARY 50 BIO SPECTROPHOTOMETER	Varian	Cary 50	B		72	30	36	84	60	36	115																					
		PHL-0171		2627145			E	PERKINELMER LS55	Perkin Elmer	Ls 55	B		72	30	24	96	54	24	115																					
		PHL-0171					E	VWR Symphony Oven 300C	VWR	Symphony 300C	B		36	36	42	48	54	42	115	####																					
		PHL-0171		2627132			E	KW-4A SPIN COATER	Chemat Tech.	KW-4A	B		24	24	18	36	60	18	115																					
		PHL-0173					E	FTIR Microscope	Digilab	UMA 600	B		108	36	36	108	60	36	115																					
		PHL-0174		2637795			E	PHOIBOS 150 MCD ENERGY ANALIZE - XPS	Custom - Specs XPS	Custom	F		204	168	96	204	216	96	115	60	breakers)				x						x								x		x
		PHL-0174		2651750			E	XR-50 X-RAY SOURCE - XPS	SEE ABOVE - Row 113	XPS - XR-50	x		Intregal part of row 113						115	60																				x		x
		PHL-0174		2637796			E	XR50 HI-PERFORM XRAY SOURCE - XPS	SEE ABOVE - Row 113	XPS - XR-50	x		Intregal part of row 113						115																					
		PHL-0174		2637698			E	LEED SPEC4/254/45MM - XPS	SEE ABOVE - Row 113	XPS - LEED	x		Intregal part of row 113						115																					
		PHL-0174		2637797			E	UHV SURFACE ANALYSIS CHAMBER - XPS	SEE ABOVE - Row 113	XPS Chamber	x		Intregal part of row 113						115																					
		PHL-0174		2641201			E	PREP CHAMBER MANIPULATOR - XPS	SEE ABOVE - Row 113	XPS Manipulator	x		Intregal part of row 113						115																					
		PHL-0174		2637697			E	FLOOD GUN PKG FG 15/40 - XPS	SEE ABOVE - Row 113	XPS - FG-15	x		Intregal part of row 113						115																					
		PHL-0174		2637800			E	ION SOURCE PKG P-IQE - XPS	SEE ABOVE - Row 113	XPS - IQE	x		Intregal part of row 113						115																					
		PHL-0174		2631030			E	ION PUMP DBL ENDED L/S D-I - XPS	SEE ABOVE - Row 113	XPS - IonPump	x		Intregal part of row 113						115																					
		PHL-0174		2637794			E	DIGITEL ION PUMP CONTROLLER - XPS	SEE ABOVE - Row 113	XPS Ion Pump Controlle	x		Intregal part of row 113						115																					
		PHL-0174		2637799			E	100AMU RESIDUAL GAS ANALYZER - XPS	SEE ABOVE - Row 113	XPS - RGA	x		Intregal part of row 113						115																					
		PHL-0174		2641191			E	ANALYSIS MANIPULATOR +/-1.0" - RGA	SEE ABOVE - Row 113	XPS - RGA manipulator	x		Intregal part of row 113						115																					
		PHL-0174		2614813			E	QUADRUPOLE 100C MASS SPEC(6278) - RGA	SEE ABOVE - Row 113	XPS - QMS	x		Intregal part of row 113						115																					
		PHL-0174		2635355			E	D8 Discover Diffractometer	Bruker	D8 Discover	F		156	132	84	156	187	84	240	60								x												
		PHL-0174		2651517			E	ATOMIC FORCE MICROSCOPE (AsylumR)	Asylum Research	MFP-3D	F		72	120	78	72	120	78	115																					
		PHL-0174		4000386			E	RAME-HART - TENSIONMETER	Rame Hart	250-U1	B		84	30	24	84	66	24	115																					

Group: Materials Science & Engineering

Date ***31-Jan-21***

Utility Legend

NEMA = Special Plug Type
GEN = Generator Power
UPS = Uninterruptible Power
ALR = Alarm
CW = Cold Water
HW = Hot Water
PW = Purified Water
CA = Compressed Air
VAC = Vacuum
EXH = Local Exhaust
HV = High Vacuum
HE = Helium
N2 = Nitrogen
ChW = Chilled Water
CS = Clean Steam
STM = Steam

Specialty Gases Legend

SG1 = INSERT NAME
SG2 = INSERT NAME
SG3 = INSERT NAME
SG4 = Argon
SG5 = INSERT NAME

											Mounting		Dimensions			Electrical							Utilities and Gases																	Remarks
Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No	Bench / Floor	Weight	Width	Depth	Height	Volts	Amps	Watts	Phase	NEMA	GEN	UPS	ALR	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5	
		PHL-0174		2651749			E	NITON X-RAY XL3T FLURENSCENCE	Thermo Niton	XL3T	B		48	24	30	96	102	30	115																							
		PHL-0174					E	Agilent Cary 620 FTIR Microscope	Agilent	Cary 620/680	B		108	36	36	120	56.4	36	115																							
		PHL-0174		2655071			E	Electromechanical Instrument - INSTRON	Instron	5969	F		96	60	114	120	144	114	115											x										
		PHL-0174		4000490			E	Cryogenic Testing Instrument - INSTRON	Subsystem for Row 131	Janis Cryostat	F		48	36	84	48	36	84	N/A																							
		PHL-0174		2637631			E	HEAD SYSTEM FOR TUNNELING MICR - STM	Custom STM	STM - OMicron	F		132	120	96	132	120	96	115	60	) breakers)									x											
		PHL-0174		2637671			E	SPM CONTROL ELEC SYSTEM 1000HV - STM	SEE ABOVE - Row 133	STM - Controller	x		Intregal part of row 133						115																						
		PHL-0174		2637791			E	STM-PREP CHAMBER - STM	SEE ABOVE - Row 133	STM - Chamber	x		Intregal part of row 133						115																						
		PHL-0174		2637675			E	TURBOPUMP CART SYSTEM PT361 - STM	SEE ABOVE - Row 133	STM - Vac. System	x		Intregal part of row 133						115																						
		PHL-0174		2637651			E	DIGITEL MPC ION PUMP CONTROL - STM	SEE ABOVE - Row 133	STM - Pump Controller	x		Intregal part of row 133						115																						
		PHL-0174		2637792			E	XYZ MANIPULATOR - STM	SEE ABOVE - Row 133	STM - Manipulator	x		Intregal part of row 133						115																						
		PHL-0174					E	PureAir HLF - Laminar Flow Hood	Air Science	Purair-HFL	F		72	36	78	72	72	78	115																							
		PHL-0174		2652695			E	SMARTTEST PORTABLE HELIUM DET	Pfeiffer	SmartTest	F		36	18	48	36	18	48	115																							
		PHL-0174		2637798			E	TURBOMOLECULAR DRAG PUMP	Leybold	PT 361	F		36	48	54	36	48	54	115									x													
		PHL-0174					E	Kaeser Air Drier for FTIR purge	Kaeser		W		36	12	36	36	12	36	115											x										
		PHL-0174		2664502			E	Polycom HDX 7000	Polycom	HDX 7000	F		60	36	72	60	36	72	115																						
		PHL-0407A		4000474			E	Agilent Spectrometer MPAES	Agilent	4200 MP-AES	B		96	36	36	96	66	36	230	10												x			x						x
		PHL-0407A		4000475			E	Nitrogen Generator for MPAES	Agilent	N2 generator	F		24	24	35	24	24	34.8	115	1																					
		PHL-0483		4000256			E	Electroscopic Instument - Mobius	Wyatt	Mobius	B		60	30	24	60	78	24	115	5																				x	
		PHL-0483		4000189			E	HR-2 Discovery Hybrid Rheometer	TA instruments	Discovery HR-2	B		72	36	36	78	72	36	115											x											
		PHL-0483		2654731			E	Waters Breeze 2 System	Waters	Breeze 2 GPC	B		60	30	36	72	66	36	115																						
		Clairemont 511					E	Impact Tester	Custom	Impact Tester	F		72	120	120	120	168	120	115											x										
		PHL-???					F	Cell culture hood-1			F	110 lb	32	39	62	31.5	64	61.8	120	10	####		##																	
		PHL-???					F	Cell culture hood-2			F	110 lb	32	39	62	31.5	64	61.8	120	10	####		##																	
		PHL-???					F	Cell culture hood-3			F	110 lb	32	39	62	31.5	64	61.8	120	10	####		##																2	
		PHL-???					F	Incubator			F	154 lb	31	25	24	56	50	36	120																				
		PHL-???					F	Fridge			F	120 lb	24	34	34	24	70	34	115	1	##		##																
		PHL-???					F	Freezer			F	120 lb	21	18	26	21	42	26	115	1	##		##																
		PHL-???					F	Minus 80 Freezer			F	256lb	33	36	23	33	60	23	115																				
		PHL-???					F	LN2 dewar			F	100lb	22	22	27	46	46	55	N/A																				
		PHL-???					F	Autoclave			B	106lb	18	20	15	18	44	30	120	12	####							X												
		PHL-???					F	Centrifuge			B	120lb	13	24	10	13	24	34	120																				
		PHL-???					F	Pathology Microscope-1			B	15	24	24	18	36	24	36	10/220																				
		PHL-???					F	Pathology Microscope-2			B	15	24	24	18	36	24	36	10/220																				
		PHL-???					F	Pathology Microscope-3			B	15	24	24	18	36	24	36	10/220																				
		PHL-???					F	Inverted light microscope			B	15	24	24	18	36	24	36	10/220																				
		PHL-???					F	Waterbath			B	20	15	9	18	18	21	33	230	2																			
		PHL-???					F	Microcentrifuge			B	10	18	18	18	18	18	18	10/240																				
		PHL-???					F	Vortex			B	10	10	10	10	10	10	24	230	1	##																		
		PHL-???					F	pH meter			B	4	18	18	18	18	18	18	10/220																				
		PHL-???					F	Balance-1			B	4	18	18	18	18	18	18	10/220																				
		PHL-???					F	Balance-2			B	4	18	18	18	18	18	18	10/220																				
		PHL-???					F	Hot plate-1			B	8	10	10	6	12	12	18	110																				
		PHL-???					F	Hot plate-2			B	8	10	10	6	12	12	18	110																				

Group: Nursing

Date ***28-Jan-21***

Utility Legend

NEMA = Special Plug Type | PW = Purified Water | HE = Helium
GEN = Generator Power | CA = Compressed Air | N2 = Nitrogen
UPS = Uninterruptible Power | VAC = Vacuum | ChW = Chilled Water
ALR = Alarm | EXH = Local Exhaust | CS = Clean Steam
CW = Cold Water | HV = High Vacuum | STM = Steam
HW = Hot Water

Specialty Gases Legend

SG1 = INSERT NAME
SG2 = INSERT NAME
SG3 = INSERT NAME
SG4 = INSERT NAME
SG5 = INSERT NAME

											Mounting		Dimensions			Electrical								Utilities and Gases																
Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No	Bench / Floor	Weight	Width	Depth	Height	Volts	Amps	Watts	Phase	NEMA	GEN	UPS	ALR	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5
EXAMPLE							F	Refrigerator	Puffer Hubbard	FC430A	F		34	37	78	115	14		1		x	x	x																	
		NUR-0234						6 Hospital Beds (#'s 15-20)	Hill Rom	Century+	F	350-	42	96	42	120	3																							
		NUR-0212A						7 Hospital Beds (#'s 8-14)	Hill Rom	Century+	F	350-	42	96	42	120	3																							
		NUR-0212						7 Hospital Beds (#'s 1-7)	Hill Rom	Century+	F	350-	42	96	42	120	3																							
		NUR-0246						Hospital Beds (2 beds)	Hill Rom	CareAssetES	F	350-	42	96	42	120	3																							
		NUR-0202						Hospital Beds (2 beds)	Hill Rom	CareAssetES	F	350-	42	96	42	120	3																							
		NUR-0222						Hospital Beds (1 beds)	Hill Rom	Affinity ll	F	350-	42	96	42	120	3																							
		NUR-0263						Hospital Beds (4 beds)	Stryker	Secure ll	F	350-	42	96	42	120	3																							
		NUR-0222						Infant Warmer	Drager		F	120-	46	36	60	120	3																							
								24 bedtables			f	20	24	24	32																									
								28 overbed tables				18	22	46																										
								50 Chairs					24	24	36																									
		NUR-0234		4000493				Manikin (Essential #1)	Laerdal	Essential	Bed	100	20	67	9	120	3																							
								Laptop / 22 inch monitor	Lenovo																															
		NUR-0212		4000494				Manikin (Essential #2)	Laerdal	Essential	Bed	100	20	67	9	120	3																							
								Laptop / 22 inch monitor	Dell /HP																															
		NUR-0212A		4000318				Manikin (Essential #3)	Laerdal	Essential	Bed	100	20	67	9	120	3																							
								Laptop / 22 inch monitor	Dell /HP																															
		NUR-0246A		2627147				Manikin (3G white -#1)	Laerdal	3G	Bed	100	20	67	9	120	3																							
								Laptop / 22 inch monitor	Lenovo																															
		NUR-0246B		2627148				Manikin (3G white-#2)	Laerdal	3G	Bed	100	20	67	9	120	3																							
								Laptop / 22 inch monitor	Lenovo																															
		NUR-0202B						Manikin (3G Tan)	Laerdal	3G	Bed	100	20	67	9	120	3																							
								Laptop / 22 inch monitor	Dell /HP																															
		NUR-0202AB						Manikin (3GDark)	Laerdal	3G	Bed	100	20	67	9	120	3																							
								Laptop / 22 inch monitor	Dell /HP																															
		NUR-0222		4000428				Manikin (Birthing)	CAE	Lucina	Bed	180	20	67	9	120	3																							
								Laptop / 22 inch monitor	MacBook/MSI																															
		NUR-0224A		4000525				Manikin (pediatric)	CAE	Pedia Sim	Bed	35	20	48	9	120	3																							
								Laptop / 22 inch monitor	MacBook/MSI																															
								Manikin (pediatric)	Gaumard	Ped Hal	Bed	35	20	48	9	120	3																							
								Laptop / 22 inch monitor	SurfacePro																															
								Manikin (infant)	Gaumard	SuperTory	Infant	20	12	20	6	120	3																							
								Laptop / 22 inch monitor	SurfacePro																															
								5 Manikins	Laerdal	Kelly	Bed		20	67	9																									
								7 Manikins	Laerdal	Anne	Bed		20	67	9																									
								3 Manikins	Kyoto Kagaku	Sukura	Bed		20	67	9																									
								5 Wheeled computer carts	Ergotron		f		22	32	50																									
								12 Laptop computers	Dell	Latitudes	Carts																													
		NUR-0212		2635358				Med Dispenser	Metro	MDB-25S	F	250	22	23	56	120	1																							
		NUR-0212		2654234				Med Dispenser	Metro	MDB-25S	F	250	22	23	56	120	1																							
		NUR-0212		2635359				Med Dispenser	Metro	MDB-25S	F	250	22	23	56	120	1																							
		NUR-0212A		2654219				Med Dispenser	Metro	MDB-25S	F	250	22	23	56	120	1																							
		NUR-0234		4000527				Med Dispenser	Metro	MDB-25S	F	250	22	23	56	120	1																							
		NUR-0234		4000526				Med Dispenser	Metro	MDB-25S	F	250	22	23	56	120	1																							
		NUR-0234		2635073																																				
								6 Medication carts	Lionville	600	F	60	38	24	48	-																								
								Crash cart tool Cabinet	Harloff		F	35	36	20	38																									
								2 Isolation carts	Medline		F	25	24	20	36																									
		NUR-168						8 Exam Tables	Hamilton	Omni	F	60	26	48	40																									
		222						Refridgerator			F		22	22	36																									
		wet lab						Refridgerator			F		32	34	60																									
								15 IV poles with & without IV pumps			F	6	18	18	76																									
								7 mobile VS's modules			F	15	23	23	50																									
								Compressor Room related																																
		NUR-0212A						2 Hospital Head walls	Modular		Wall		20	5	120													x												
		NUR-0212						2 Hospital Head walls	Modular		Wall		20	5	120													x												
		NUR-0246						4 Hospital Head walls	Modular	Profile	Wall		12	2	60													x												
		NUR-0202						4 Hospital Head walls	Amico		Wall		18	2	50													x												
		NUR-0234						3 Hospital Head walls	Modular	Profile	Wall		12	2	60													x												
								11 Oxygen /Suction units	Chemtron				8	1	6													x												
								AV system in all simulation rooms																																
						246		29 PTZ cameras	Vaddio		Ceiling																													
						202		4 56 inch Monitors	LG		Wall			5																										
						222/224		2 50 inch monitors	LG		Wall			5																										

Group: Nursing

Date 28-Jan-21

Utility Legend

NEMA = Special Plug Type	PW = Purified Water	HE = Helium	
GEN = Generator Power	CA = Compressed Air	N2 = Nitrogen	
UPS = Uninterruptible Power	VAC = Vacuum	ChW = Chilled Water	
ALR = Alarm	EXH = Local Exhaust	CS = Clean Steam	
CW = Cold Water	HV = High Vacuum	STM = Steam	
HW = Hot Water			

Specialty Gases Legend

SG1 =	INSERT NAME
SG2 =	INSERT NAME
SG3 =	INSERT NAME
SG4 =	INSERT NAME
SG5 =	INSERT NAME

											Mounting		Dimensions			Electrical							Utilities and Gases																				
Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No	Bench / Floor	Weight	Width	Depth	Height	Volts	Amps	Watts	Phase	NEMA	GEN	UPS	ALR	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5
						162		4 22 inch monitors			Wall			5																													
								2 32 inch monitors	Vizo		Wall			5																														
								2 10 ft counters			Wall		10 ft	24	40																													
								1 6 ft counter			Wall		6 ft	24	40																													
								23ft counters			Wall		3 ft	24	36																													
								7 camera joysticks	Vaddio	PCC Premier	Counters		18	12	6																													
								Storage																																			
								2 Wire 5 Shelf Stands	Uline		F	50	48	36	86																													
								7 Wire 5 Shelf Stands	Metro		F	50	72	24	86																													
								9 Wire 5 Shelf Stands	Metro		F	50	48	18	86																													
								under counter cupboards			Wall		50 ft	24	48																													
								over counter cupboards			Wall		30 ft	12	30																													
								large Wall Cupboards			Wall		13 ft	12	84																													
								large Wall Cupboards			Wall		24 ft	24	84																													
								large Wall Cupboards			Wall		42 ft	24	48																													
								Shelving			Wall		24 ft	24	40																													
								Full body task trainers (space for storage and usage)		This equipment may move with us in different quantity then what we currently have; big concern with this group is storage, wifi, and large door frames																																		
								Partial Task trainers (space for storage and usage)		This equipment may move with us in different quantity then what we currently have; big concern with this group is storage, wifi, and large door frames																																		
								Laptops (12)		This equipment may move with us in different quantity then what we currently have; big concern with this group is storage, wifi, and large door frames																																		
								COMPRESSOR & ACCESSORIES		This equipment may move with us in different quantity then what we currently have; big concern with this group is storage, wifi, and large door frames																																		
								Modular Services Profile (246)		This group of supplies are vital to a simulation lab and must be "in the walls"																																		
								Modular Services Profile (246)		This group of supplies are vital to a simulation lab and must be "in the walls"																																		
								Modular Services Profile (202)		This group of supplies are vital to a simulation lab and must be "in the walls"																																		
								AV system in all simulation rooms		This group of supplies are vital to a simulation lab and must be "in the walls"																																		
										This group of supplies are vital to a simulation lab and must be "in the walls"																																		
								PortaScan Bladder Scanner	Medicach																																				

Group: Physics & Astronomy

Date ***1-Jan-21***

Utility Legend

NEMA = Special Plug Type
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EXH = Local Exhaust
HV = High Vacuum
HE = Helium
N2 = Nitrogen
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STM = Steam

Specialty Gases Legend

SG1 = INSERT NAME
SG2 = INSERT NAME
SG3 = INSERT NAME
SG4 = INSERT NAME
SG5 = INSERT NAME

											Mounting		Dimensions			Electrical										Utilities and Gases															Remarks
Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No	Bench / Floor	Weight	Width	Depth	Height	Volts	Amps	Watts	Phase	NEMA	GEN	UPS	ALR	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5	
EXAMPLE							F	Refrigerator	Puffer Hubbard	FC430A	F		34	37	78	115	14		1		x	x	x																			
	OBSERVATO	PHL-0600		2654690			E	CLASS 2 CCD CAMERA FOR TELESCOPE	UNKNOWN		F	15	22	18	9	120			1																							In hard case or attached to research telescope, needs standard AC power, must connnect by data cable to control room.
	OBSERVATORY				OFCI		F	RESEARCH TELESCOPE DOME/ROLL-OFF	TBD		F																														Dome or roll-off roof structure to house and protect telescope, see additional pre-design notes for more detail.
	OBSERVATORY				OFCI		F	RESEARCH TELESCOPE PIER	TBD		F																														Design to be determined, vibration isolation required.
	OBSERVATORY						F	RESEARCH TELESCOPE	MEADE	LX200 ACF	F	73	30	30	36	120			1																							Permanently mounted on vibration isolation pier, needs standard AC power, must connect by data cable to control room.
	OBSERVATO	PHL-0600					E	PORTABLE TELESCOPES (8 TOTAL)	CELESTRON	NEXSTAR 8SE	F	40	32	22	14	120			1																							Protective hardshell case, eight total, stored on racks, need standard AC power at pier for operation and tracking.
	OBSERVATORY				OFCI		F	TELESCOPE PIERS	TBD		F					120			1																						Design to be determined, best if insulated from vibration, quantity of 10-12, need weather-proof GFCI receptacles for telescopes.
	PLANETARIUM				OFCI		F	PROJECTION SYSTEM	TBD		F																														Design to be determined based on layout of Planetarium dome and seating.
	PLANETARIUM				OFCI		F	SOUND SYSTEM AND CONTROLS	TBD		F																														Design to be determined based on layout of Planetarium dome and seating.
	DIGITAL FAB	PHL-0102			OFCI		E	LASER CUTTER/ENGRAVER	BOSS LASER	LS1630	F	630	66	45	46	120	15		1								x		x												Needs dedicated 20A branch circuit, 6" vent at minimum 400 CFM to outside, needs compressed air, includes closed loop chiller unit for laser tube, needs wide entry door, may need professional riggers to move--does not fit through existing doors in Phillips Hall.
	DIGITAL FAB	PHL-0102					E	CIRCUIT BOARD MILL	BANTAM TOOLS	PCB MILLING MACHINE	F	80	24	18	56	120			1																							On cart with computer, vacuum, and accessories.
	DIGITAL FABRICATION						F	3D PRINTER	PRUSA	MINI+	B	25	30	15	13	120			1																							
	DIGITAL FAB	PHL-0102			OFCI		E	*CNC MILLING MACHINE (MSE DEPT.)	TORMACH	PCNC 770	F	800	72	72	82	120	20		1	5-20							x														NOTE! Belongs to Materials Science and Engineering Department, currently housed in our digital fabrication lab, needs dedicated 20A branch circuit and compressed air, needs wide entry door, dimensions include large enclosure and control arm, cannot be removed from existing location without disassembly or removing wall, may need professional riggers to move.
	METAL SHOP				OFCI		F	VERTICAL METAL CUTTING BANDSAW	JET	VBS-1408	F	643	34	24	68.5	120	15		1																							Needs dedicated 20A branch circuit, could be hardwired with lockout safety switch, must have adequate clearance on all sides, must be secured to floor.

Group: Physics & Astronomy

Date ***1-Jan-21***

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Specialty Gases Legend

SG1 = INSERT NAME
SG2 = INSERT NAME
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											Mounting		Dimensions			Electrical								Utilities and Gases																Remarks
Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No	Bench / Floor	Weight	Width	Depth	Height	Volts	Amps	Watts	Phase	NEMA	GEN	UPS	ALR	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5	
	METAL SHO	PHL-0101A					E	HORIZONTAL BANDSAW	Wilton	3130	F	120	18	45	58	120			1																							Needs at least 48"clear width to set up stock.
	METAL SHO	PHL-0101A					E	SHEET METAL SHEAR	PEXTO		F	600	48	60	42																										Needs plenty of clear depth to pass long material into shear--both front and back, heavy machine may need professional riggers, must be secured to floor.
	METAL SHO	P					F	SHEET METAL BENDING BRAKE	BAILEIGH	BB-2416E	F	185	33	24	48																										Must be secured to floor.
	METAL SHO	PHL-0101A					E	SHEET METAL CORNER NOTCHER	PEXTO		F	200	18	28	72																										Must be secured to floor.
	METAL SHO	PHL-0101A					E	METAL PUNCH	ROPER WHITNEY	17	B	40	6	15	35																										Must be secured to heavy bench.
	METAL SHO	PHL-0101A					E	ARBOR PRESS	UNKNOWN		B	100	8	18	32																										Must be secured to heavy bench.
	METAL SHO	PHL-0101A					E	DRILL PRESS	GRIZZLY	G7943	B	148	16	28	40	120	7.5		1																								Must be secured to heavy bench.
	METAL SHO	PHL-0101A					E	BENCHTOP MILL	UNKNOWN		B	730	48	34	46	120	15		1								x													Must be secured to heavy bench, may need professional riggers to move.
	METAL SHO	PHL-0101A					E	SMALL MILL	GRIZZLY	G0759	F	392	38	36	68	120	12		1								x													Must be secured to floor or heavy bench.
	METAL SHOP				OFCI		F	MILL	SOUTHBEND(OR EQUIVALENT)	SB1024F	F	###	63	58	87	240	20		1	6-20							x											branch circuit, could be hardwired with lockout safety switch, must have adequate clearance for operation.
	METAL SHO	PHL-0101A					E	BENCHTOP LATHE	GRIZZLY	G0768Z	B	166	36	16	18	120	10		1								x													Must be secured to heavy bench.
	METAL SHOP				OFCI		F	LATHE	SOUTHBEND(OR EQUIVALENT)	SB1049F	F	###	90	38	69	240	30		1	6-30							x											branch circuit, could be hardwired with lockout safety switch, must have adequate clearance for operation.
	METAL SHO	PHL-0101A					E	COMBINATION BELT/DISC SANDER	WILTON	41002	B	58	24	18	22	120			1																							
	METAL SHO	PHL-0101A					E	BENCH GRINDER	CRAFTSMAN	21162	B	47	20	14	18	120	5		1																							Must be secured to heavy bench.
	METAL SHO	PHL-0101A					E	TOOL CHEST	KENNEDY	297XB	F	400	30	20	35																										
	METAL SHO	PHL-0101A					E	TOOL CHEST	KENNEDY	275XB	F	600	30	20	35																										
	METAL SHO	PHL-0101A					E	TOOL CHEST SET	KENNEDY	273XB/360B	F	400	27	18	56																										
	METAL SHOP				OFCI		F	WELDING BENCH/BOOTH	TBD		F		72			240	30		1										x										Set up for MIG welding or a torch, metal tops and surround (or curtain), flexible exhaust hood, at least 72" wide.
	METAL SHOP				OFCI		F	PAINT BOOTH	TBD		F		36														x	x										Set up with exhaust and replaceble filters for spray painting or brush-on high VOC products, at least 36" wide.
	WOOD SHOP				OFCI		F	SLIDING TABLE SAW	GRIZZLY	G0623	F	533	76	125	46	240	19		1	6-30									x										Needs dedicated 30A, 240V branch circuit, could be hardwired with lockout safety switch, ducted to dust collection system, must have large amount of clearance for cutting panel material.
	WOOD SHO	PHL-0509					E	WOOD BANDSAW	GRIZZLY	G0555	F	167	28	30	68	120	11		1										x											Ducted to dust collection system.
	WOOD SHO	PHL-0510					E	ROUTER TABLE	BOSCH	RA1181	F	80	30	27	40	120			1										x											Ducted to dust collection system.
	WOOD SHO	PHL-0509					E	COMPOUND MITER SAW	BOSCH	CM10GD	B	64	32	36	28	120			1										x											Ducted to dust collection system.
	WOOD SHO	PHL-0509					E	DRILL PRESS	SHOP FOX	W1668	B	113	18	24	39	120	9		1										x											Ducted to dust collection system.
	WOOD SHO	PHL-0509					E	COMBINATION BELT/DISC SANDER	WILTON	99175	B	50	20	18	16	120			1										x											Ducted to dust collection system.
	WOOD SHO	PHL-0509					E	DOWNDRAFT SANDING TABLE	GRIZZLY	T10115	B	20	26	20	12														x											Ducted to dust collection system.
	WOOD SHO	PHL-0509					E	TOOL CHEST	KENNEDY	297XB	F	400	30	20	35																										
	WOOD SHO	PHL-0509					E	TOOL CHEST	KENNEDY	275XB	F	400	30	20	35																										
	WOOD SHO	PHL-0510					E	AIR FILTRATION SYSTEM	JET	AFS-1000B	B	100	30	13	24	120			1																							Wall mounted.

Group: Physics & Astronomy

Date 1-Jan-21

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											Mounting		Dimensions			Electrical								Utilities and Gases																	Remarks
Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No	Bench / Floor	Weight	Width	Depth	Height	Volts	Amps	Watts	Phase	NEMA	GEN	UPS	ALR	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5	
	WOOD SHOP				OFCI		F	DUST COLLECTION SYSTEM	TBD		F																		x													Exterior built-in dust collection system, portable or wall mount system could also be used, include floor sweep and vacuum hose attachements, spiral metal duct to each tool in shop with blast gates to control flow.
	OPTICS LAB	PHL-0105		2646893			E	PHOTON AT A TIME APPARATUS	TEACH SPIN		B	30	60	16	10	120			1																						
	OPTICS LAB	PHL-0105		2612670	OFCI		E	OPTICAL TABLE	TMC	78A-663-02	F	###	48	144	42													x														Compressed air for isolation system, very heavy and large--needs professional riggers to move, needs overhead shelf with built-in lighting and receptables.
	OPTICS LAB	PHL-0105					E	CO2 BENCH LASER SETUP	VARIOUS SYSTEM PARTS		B	150	84	20	20	120			1																						Laser tube, vacuum pump, many small components, needs place to mount cyclinder of special high purity laser gas.
	OPTICS LAB	PHL-0105					E	MINI FRIDGE FOR HOLOGRAPHIC PLATES	UNKNOWN		B	40	20	20	17	120			1																						
	DRY LAB RES	PHL-0105					E	ULTRA HIGH VACUUUM SYSTEM	CUSTOM		F	650	42	36	64	20/20	20		3	18-20																						Needs access from all sides.
	DRY LAB RES	PHL-0209					E	ULTRA HIGH VACUUUM SYSTEM	CUSTOM		F	###	84	54	64	20/20	30		3	21-30																						Needs access from all sides.
	DRY LAB RES	PHL-0209					E	TALL ELECTRONICS RACK	UNKNOWN		F	500	24	24	80	120	20		1																						
	DRY LAB RES	PHL-0209		2627182			E	MICROSCOPE	OLYMPUS	BHM	B	90	16	24	36	120			1																						
	DRY LAB RES	PHL-0209		2631031			E	MULTI-PREP POLISHING SYSTEM	ALLIED	TECHPREP	B	95	16	26	22	120			1					x																		Needs water supply and drain for operation, best placed near sink.
	DRY LAB RES	PHL-0209					E	DIAMOND WHEEL CUTTER	SOUTH BAY TECHNOLOGY	650	B	15	12	14	14	120			1																						
	DRY LAB RES	PHL-0209					E	SOLAR WATER HEATER TEST BED	CUSTOM		F	500	144	48	80	120	20		1					x					x												testing of prototype solar hot water panels, needs accces to water and drain, floor must withstand spills and some standing water, need flexible exhaust duct for solvent welding in situ, need access to fume hood, need large amount of countertop and access to all sides of test bed, test bed consists of portbable carts and tables.
	DRY LAB RES	PHL-0209					E	TALL RESEARCH TOOL CHEST	CRAFTSMAN		F	400	27	19	70																									
	DRY LAB RES	PHL-0207					E	COMPUTATIONAL WORKSTATION	CUSTOM		F	60	10	22	27	120			1																						Might fit under table.
	DRY LAB RES	PHL-0218					E	TOOL CHEST	UNKNOWN		B	100	26	12	16																									
	DRY LAB RES	PHL-0218					E	ELECTROMAGNET	ALPHA SCIENTIFIC	4600	F	500	30	32	38																										Needs water cooling. Closed loop chiller would be better than current use of cold water line returned to sink drain.
	DRY LAB RES	PHL-0218					E	ELECTROMAGNET POWER SUPPLY (ON CART	TDK LAMDA	GEN-5030-IEMD	F	80	24	24	25	240	20		1	.6-20																						Power supply and other instruments on cart.
	DRY LAB RESEARCH						F	PORTABLE CHILLER FOR ELECTROMAGNET	TBD		F	100	20	24	24	240	20		1	.6-20																						
	DRY LAB RES	PHL-0222					E	ULTRA HIGH VACUUUM SYSTEM	CUSTOM		F	###	60	34	54	240	30		1	.6-30																						Needs access from all sides.
	DRY LAB RES	PHL-0222					E	ELECTRONICS RACK	UNKNOWN		F	300	22	32	42	120	20		1																						
	DRY LAB RES	PHL-0222					E	ELECTRONICS RACK	UNKNOWN		F	300	24	24	72	120	20		1																						
	DRY LAB RES	PHL-0222					E	TALL RESEARCH TOOL CHEST	CRAFTSMAN		F	400	27	19	70																									

Group: Physics & Astronomy

Date ***1-Jan-21***

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											Mounting		Dimensions			Electrical							Utilities and Gases																Remarks
Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No	Bench / Floor	Weight	Width	Depth	Height	Volts	Amps	Watts	Phase	NEMA	GEN	UPS	ALR	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5	
	PHYSICS I TE	PHL-0204A					E	CHEST FREEZER	UNKNOWN		F	100	30	24	33	120			1																					Standard ice maker not suitable, labs require larger ice cubes that are kept at consistent temperature and are accessible to students directly from freezer.
	DEMO ROOM						F	CHEST FREEZER	TBD		F	80	24	24	33	120			1																					Ice cubes needed for demos, could be shared with teaching lab freezer if in close proximity.

Group: Psychology

Date ***3-Feb-21***

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												Mounting		Dimensions			Electrical							Utilities and Gases																		Remarks
Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No		Bench / Floor	Weight	Width	Depth	Height	Volts	Amps	Watts	Phase	NEMA	GEN	UPS	ALR	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5	
EXAMPLE							F	Refrigerator	Puffer Hubbard	FC430A		F		34	37	78	115	14		1		x	x	x																			
		HHH221C						Control bench for operant interface and	med associate			F		81	48	36																												there is a hole in the wall that allows for power and data wires to connect to equipment in the next room
		HHH221C						Racks for operant boxes	med associate (12 boxes that sit on wire racks, 4 on a r			F		96	36	144																											Carla will provide power needs
		HHH221C						Racks for operant boxes	med associate (5 boxes on a rack)			F		60	36	48																											Not currently set up
		HHH217						AM1 Analox Alcohol Analyzer	Analox	AM-1		B		12	12	12	110																										
		HHH221C						safe				F		23	20	28																									
		HHH217C						ANYMAZE System 60601.1.15.000	laptop computer			B		12	12	12	110																										
		HHH213						REVCO EXF SERIES FREEZER, -80	thermosci	Revco EXF		F		36	40	78	120																										
		HHH217c						Watermaze	anymaze			F		72	72	48																										
		HHH217c						Plus maze	Anymaze			F		48	48	48																										
		HHH217c						Openfield	Anymaze			F		48	48	48																										
		HHH221c						Steel Cabinet (2)				F		24	36	78																										
		HHH213						Centrifuge	Thermosci	lengend XR1		B		24	14	24	110																										
		HHH217						Western blot equipment	Xcel			B		24	24	24	110																										
		HHH213A						(2) 80 cage vent	Allentown	EcoFlo		F		36	86	106	110																										
		HHH213A						4 degree refrigerator	Nurlake Sci			F		28	32	84	110																										
		HHH215						4 degree refrigerator	Nurlake Sci			F		28	32	84	110																										
		HHH215						Flake ice machine	Scotman			F		26	16	40	110																										requires water
		HHH213						Steel work table				F		84	24	36																									
		VARIOUS						dehumidifier (5)				F		12	15	15	110																									
		VARIOUS						Wire Racks for holding cages (5)				F		18	48	72																										
		HHH215A						File Cabinet. (5)				F		12	36	84																										
		HHH215A						Metal Anmal Housing Racks for Mice				F		21	60	72																										
		HHH221B						Computer Rack (3)				F		32	18	66																										
		HHH215						C02 Tank				F		18	24	24																									
		HHH215						Metal Storage Cabinet				F		36	70	28																										
		HHH215						Floor Pallet food and bedding				F		48	48	96																										
		HHH217						Wet bench (metal for equipment) (3)				F		96	32	36																										
		HHH217						Metal Bookcases (8)				F		24	48	60																										
		HHH217						Mini Fridge				F		24	24	36	110																									
		HHH217						Tables (3)				F		24	36	36																									
		HHH217						Hotplates (2)				B		12	18	5	110																									
		HHH217						Balance	Metlerr	M51035		B		8	13	10	110																									
		HHH217						Rocker		Boekel		B		8	13	10	110																									
		HHH217						Waterbath	Isotemp	Fisher		B		18	16	15	110																									
		HHH217						Spectrophotomer	Thermosci	Genesys40		B		15	15	15	110																									
		HHH217						platereader	thermosci			B		12	24	15	110																									
								Electrophysiology equipment	various			B		60	24	40	110																									
		HHH215A						Wire Racks for holding cages (2)				B		48	18	60																										
		HHH215B						Operant boxes	med associate (12)			?		16	24	25																										these are not currently set up and working so I don't know if they would be floor or bench
		HHH215B						Wire racks holding equipment/parts				F		48	18	60																									
		HHH215C						Racks for operant boxes (12)	med associate			F		126	30	84																										power and data cords go through ceiling to control adjenct to this room. Dr. Jewett to supply power needs
		HHH215C						metal bookcases (2)				F		12	36	84																									
		HHH215C						Control bench for operant interface and	Med-Associates	SG-6510D		F		20	36	120																										Power supply needs provided by Dr. Jewett
									Med-Associates	SG-6510D																																
		HHH215E						metal rat cage shelf	allentown			F		64	14	80																										
		HHH215E						Metal Wire rat caging	allentown			F		24	63	57																										
		HHH215E						Metal rolling shelf	allentown			F		25	21	65																										
		HHH215						Metal rat cage holder	allentown			F		60	24	67																										
								Tabletop cabinet and power supply (2)	Med-Associates			B		20	16	6	120																										run on generator or uninterruptable power as it controls the experiemtns as they're running (so, a loss of power means the experiment shuts down).

Group: Watershed

Date 31-Jan-21

Utility Legend

NEMA = Special Plug Type	PW = Purified Water	HE = Helium	
GEN = Generator Power	CA = Compressed Air	N2 = Nitrogen	
UPS = Uninterruptible Power	VAC = Vacuum	ChW = Chilled Water	
ALR = Alarm	EXH = Local Exhaust	CS = Clean Steam	
CW = Cold Water	HV = High Vacuum	STM = Steam	
HW = Hot Water			

Specialty Gases Legend

SG1 =	INSERT NAME
SG2 =	INSERT NAME
SG3 =	INSERT NAME
SG4 =	INSERT NAME
SG5 =	INSERT NAME

											Mounting		Dimensions			Electrical							Utilities and Gases																	Remarks
Room Number	Room Name	Current Location	EQ Tag	ID Tag	OFOI / OFCI	UL Rating	New Future Existing	Description	Manufacturer	Model No	Bench / Floor	Weight	Width	Depth	Height	Volts	Amps	Watts	Phase	NEMA	GEN	UPS	ALR	CW	HW	PW	CA	VAC	EXH	HV	HE	N2	ChW	CS	STM	SG1	SG2	SG3	SG4	SG5	
EXAMPLE							F	Refrigerator	Puffer Hubbard	FC430A	F		34	37	78	115	14		1		x	x	x																			
		HHH-0358		4000551				Partisol Air Sampler					36	30	48																										
		HHH-0358		4000552				Partisol Air Sampler					36	30	48																										
		HSS-0218		3002298				OLYMPUS POLARIZING MICROSCOPE					24	24	24																										
		HSS-0229		4000295			E	Sanyo Top Loading Sterilizer	Sanyo	MLS-3750	F	39 lb	23.6 in	22 in	29.7 in	0/230	16.7A																									
							E	Refrigerator																																	
		Phillips rooftop						Meteorlogical Rooftop monitor			F	00 lb	36	36	400																											Move current monitor from Phillips or purchase new meteorological sensor suite - tower is rooftop mounted
								Shielded cabinet to store teaching materials																																	NEW ITEM
		HSS 229					E	Water purifier/deionization system	Millipore	RiOs-DI	B			13 in.	19.7 in	00/240V																									requires plumbed water and drain
		HSS 229					E	Bio Safety Cabinet (hoodless)	Labconco	302511100	F	10 lb	56.3 in	31.2 in	to 95	115V	16A																									
		HSS 229					F	Fume hood			F																														requires ventilation
		HSS 211					F	Fume hood			F																														requires ventilation
		HSS 229					E	Desiccator			F																													
		HSS 218					E	Incubator			F																													
		HSS 218					E	Incubator	Fischersci	Isotemp 650D	F		18 in	18 in	26.5 in	120V	7.7A	410 W																							
		HSS 218					E	Microscopes (25 count)			B																														
		HSS 218					E	Refrigerator	Thermoscientific	18LCEETSA	F	40 lb	30 in		66.63 i	115 V	6A	690 W																							Plug type NEMA 5-15 P
		HSS 229					E	Refrigerator			F																														
		HSS 211					E	Water bath			B																														
		HSS 218					E	Water bath			B																														
		HSS 211					E	PCR	Biorad	MyCycler	B	22 lb	9 in	17.5 in	8 in	00/240 V																									
		HSS 218					E	4 TV monitors																																	
		HSS 211					E	Epifluorescent microscope			B																														
							F	Micro-sterilizers (15 count)	Leica Microsystems	39004002	B																															This is a desired item to replace Bunsen burners currently used by ENPH students in HHS labs. These can be shared with other departments
		HSS 229					E	Analytical balance	Mettler Toledo	30029076	B																													
							F	Vaccum system			B																														This is a desired item to replace pumps currently used by ENPH students in HHS labs. This can be shared with other departments
		HSS 229					E	Centrifuge	Fischerbrand	accuspin	B		8.8 in		13.7 in	120V																							
		HSS 218					E	Membrane filtration manifold			B																														
		HSS 229					E	Dishwasher	Labconco	4400320	F	06 lb	24.1 in	27.4 in	36 in.	115 V	16A																							requires plumbed water and drain
		HSS 218					E	Vortex mixer			B																													

DESIGN ASSUMPTIONS	
PROPERTY AND CODE	
Property Line	See site setback diagram for boundary
Setbacks	See site setback diagram for boundary
Front Setback	22' at NW corner growing larger towards the East, See site setback diagram
Back Setback	50' from ordinary high water mark, See site setback diagram
Side Setback	See site setback diagram
Max Building Height	The building will exceed the maximum height as outlined in the Campus Design Guidelines given that it is 5 stories and 84' tall plus a penthouse. Direction was given to proceed with this building height. The Penthouse will likely exceed the 45 degree setback rule as outlined in the Campus Design Guidelines based on necessary mechanical needs.
Building Code	2018 IBC
Zoning	City of Eau Claire Zoning, Zoned P Public
Seismic Design Category	Category A
Seismic Design Risk Category	Category III or IV based on hazardous material quantities
Fire Code	2018 IFC
Building Separation Requirements	30' from neighboring buildings due to fire separation, other setback requirements are more stringent, so no part of the building is closer than 30' to neighboring buildings
Fire Access	Life safety services were planned for Putnam Drive to Garfield Avenue and will serve as the main fire lane for access to the west and north faces of the building. Fire Access to be provided on three sides of the building, excluding the south side. This is pending further coordination with the Fire Department
MAINTENANCE	
Dock Access	Loading coming from State St to Roosevelt to Putnam
Layover Lane	A layover lane will be provided for additional loading / unloading
Dock Design Vehicle	1 Delivery Dock Space, with parking for Two Vehicles - 40' Total Length Box Truck (double rear axle)
Fire Design Vehicle	42.5' Fire Truck with Aerial Apparatus of 110' ladder and 20' wheelbase
Nitrogen Tank	10' Diameter Space for Nitrogen Tank
Trucksters	1-2 Parking spaces for Campus Trucksters (approx. 7'x13') will be provided
Generator	37' x 10' Generator
Departmental Vehicles	Turnaround provided for a Suburban with Trailor
Waste Removal Access	Waste Removal Access will be at the Loading Dock
Trash	1 Trash Compactor
Recycling	1 Recycling Compactor
Compost	2 2yd dumpsters for Composting
PARKING	
Parking Quantity	2-4 Regular Parking Spaces, and 2 ADA spots including 1 Van Accessible
ADA Space - Regular	1 Regular ADA space provided
ADA Space - Van	1 Van Accessible space provided
Bicycle Parking	Bike parking will be provided, exact location and quantity TBD
UTILITY	
Easements	No Recorded Easements on the Land
Electric	Electric enters on the West side near the Loading Dock
Gas	Gas enters on the West side near the Loading Dock
Sanitary Sewer	Sanitary Sewer enters on the North side of the building
Water	Water enters on the West side near the Loading Dock
Steam	Steam enters on the West side near the Loading Dock
Communications (Signal)	Signal enters on the West side near the Loading Dock
Chilled Water	Chilled Water enters on the East side of the building
FACILITY SPECIFIC	
Drop-Off/Pick-Up	The main entrance will be off Garfield. Drop off will occur on Garfield under special circumstance, no building drop off to be provided.
Level One Spot Elevation	FFE 781.3 and 779.3 flood protection 15' out around the building
Bus Stop	Although outlined in the Campus Masterplan, the design team was instructed not to include a bus stop at this design.

Thoughts on a Planetarium for the New Science Building at UW-Eau Claire

Paul Thomas and William Wolf
Department of Physics and Astronomy
UW-Eau Claire

thomaspj@uwec.edu
wolfwm@uwec.edu

We are excited that a planetarium is under consideration for the new science building. We feel that it would offer an excellent campus resource for teaching in multiple science disciplines, as well as substantial community outreach and, in fact, provide a new brand identity for UWEC regionally.

It should be stressed that, although this facility is referred to as a "planetarium", a modern digital projector system such as this has extreme flexibility, and, in addition to allowing the development of in-house presentation development and the sharing of presentations with a world-wide community of users, it also is well-fitted for presenting vivid digital shows from across the science disciplines. Therefore, all science departments could use this facility, for audiences varying from undergraduates (first year to seniors) to intending UWEC students to community members. The same technology that visualizes star fields and nebulas on the domed screen can be used to display a voyage through a blood vessel, or a cell, or the Grand Canyon, or a molecular simulation.

We feel that a sloped seating design under a domed screen would offer the best functionality for this facility, while allowing for the presentation of "flat" material such as PowerPoint (using appropriate keystone effect image correction). We also feel that a small space should be set aside at the front of the planetarium for a presenter and various lecture demonstrations.

A suitable model for UWEC's new science building, we feel, is the Planetarium at Mesa Community College (MCC), Mesa, Arizona.

The MCC Planetarium (https://www.mesacc.edu/departments/physical-science/astronomy/planetarium) has a seating capacity of 52, well-suited to the size of UWEC classes and to public events that would be hosted there. This compares to 50 seats in the current L.E. Phillips Planetarium at UWEC (although not all of those seats have a good view of the dome). As we've mentioned in the past, the BRBW report suggested a 75-100 seat arrangement. A conversation regarding room size and screen size and projector details will need to be had with a company, such as Evans & Sutherland, to see if this is even possible. If the final seating capacity ends up being in the 50's, this will be sufficient for most planned usage of this room. The larger seating capacity would be wonderful for public events, of course.

The MCC Planetarium currently uses a Digistar 6 projector system from Evans & Sutherland (https://www.es.com/digistar/). Typically, planetarium projector systems of this type contain a projector component, a computer component (typically GPU-based, for rapid image rendering), and a sound system. One of us (Wolf) has used this planetarium for presentations and is familiar with its use. We believe that the cost of this system for MCC was approximately $250,000 (in 2018).

We need to approach Evans and Sutherland directly for an accurate quote for our circumstances, but the above number should be considered a lower estimate for the projector/computer/sound system. It does not include the planetarium structure, lighting, seats, soundproofing, etc.

Another quote is available on the internet. This is from Evans & Sutherland to the University of Edinburgh for an earlier generation Digistar 5 system (as of 2016), and is at https://silo.tips/download/university-of-edinburgh-institute-for-astronomy-andy-lawrence .

It should be noted that this estimate is higher: $350,000 for the projector/computer/sound system as described above. Again, it is important that we talk to Evans & Sutherland to get a specific quote soon.

One of us (Thomas) would be willing to lead a local fundraising effort to raise money for the projector/computer/sound system, assuming that the State of Wisconsin would provide the structure of the planetarium, lighting, seating and basic facilities.

The planetarium structure, given its domed shape internally, might be best considered as an annex to the science building.

Figure 1: Mesa Community College (MCC) Planetarium, external view.

There are significant advantages to this approach from a branding perspective: it makes the planetarium easily identifiable to off campus visitors. It also creates a signature character to the

science building itself. Of course, this represents a significant constraint to the building design that all stake holders need to be in agreement with.

Figure 2: MCC Planetarium, internal view, showing clear space at front and seating arrangement.

As one can see from Figure 2, the seating (which reclines) permits the audience to look forward to a presenter at the front of the planetarium space, and then tilt back to look at the dome. Notice the stepped floor that slopes to the front. Lighting can be adjusted to allow note taking or discussion and then reduced to focus on the presentation.

Figure 3: MCC Planetarium operator's console.

Figure 4: Close up of planetarium seats.

Figure 5: View from operator's console.

Figure 6: The dome projection as seen from the seats.

The need for more specific numbers on cost is clear. We would be happy to open communications with MCC concerning the history of their planetarium and also discuss with Evans & Sutherland the delivery of a quote for an installation in the new science building.

Appendix B: Room Data Sheets

University of Wisconsin-Eau Claire
New Science/Health Science Building
Eau Claire, Wisconsin

DFD Project Number 19J4E

May 28, 2021

Prepared by:

Potter Lawson
Success by **Design**

hok

TABLE OF CONTENTS

Selection

Room Group Type: UWEC FICM Number

Group: 210 - Class Laboratory, 220 - Open Laboratory, 250 - Research Laboratory , 255 - Research Laboratory Service, 570 - Animal Facilities, 575 - Animal Facilities Services, 580 - Greenhouse, 585 - Greenhouse Service, 215 - Class Laboratory Service, 225 - Open Laboratory Service

Room function: 01: Biology

Room Function Number: 01.210.0001

Room Name	Anatomy & Physiology Teaching Lab - 1
Function Location:	01 - Biology / 210 - Class Laboratory
Room Data Status	From TL_FLEX-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization	
Room Number	
User Room Number	
Course Number(s)	214
IFCID	3gieX4YNLB0hj56mCooqQB
Revit Level	LEVEL 5

Areas	
Programmed	1,290.00
Actual	1,325.62
Height:	0
Perimeter:	147.17
Feasibility NSF	1,200

Groups / Classifications / Status	
Borrowed Light	Control
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory
Science	BIO-6 - Anatomy
Activity	EDU - Education/Training

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

Room Function Number: 01.210.0001

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☑
Movable Casework	☐
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

student workstations will need one fixed cabinet per seat to store student microscopes at point of use

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐

Room Function Number: 01.210.0001

EXHAUST DEVICES

Point Exhaust:	☑ (Qty: 0)
Other:	☐

COMMENTS

students will be performing organ dissection at their workstations. Each workstation needs an articulate arc fume hood (ceiling mounted)

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

quiet fans please

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☑ (2)
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

wall mounted drying racks for glassware mounted above all sinks

Room Function Number: 01.210.0001

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

weather resistant outlets
data and electric needed at teaching station in front

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

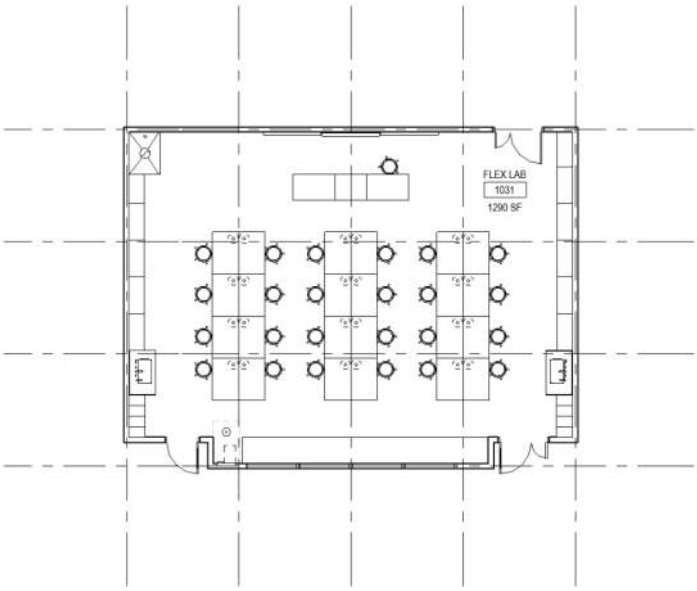
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

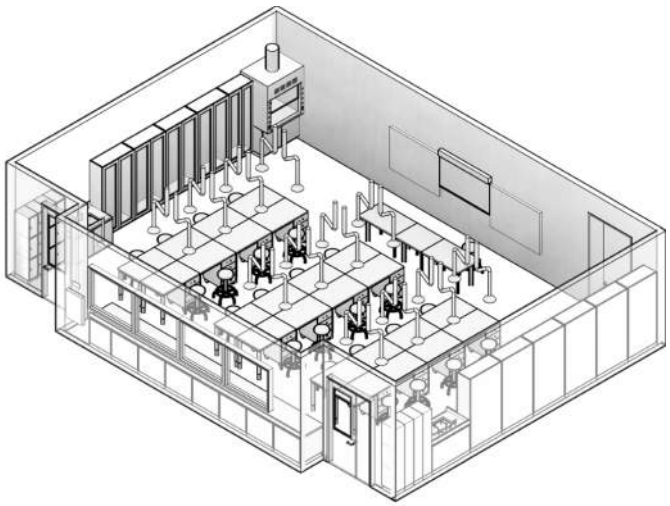
COMMENTS

two total displays at front of room (far left and right)
bulletin board for hanging posters

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.210.0002

Room Name	Anatomy & Physiology Teaching Lab - 2
Function Location:	01 - Biology / 210 - Class Laboratory
Room Data Status	From TL_FLEX-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	1,290.00	Borrowed Light	Control
User Room Number		Actual	1,330.88	From Model Phase	New Construction
Course Number(s)	314	Height:	0	Occupant	24
IFCID	3gieX4YNLB0hj56mCooqQC	Perimeter:	147.5	Revit Model	UWEC-HOK-AR
Revit Level	LEVEL 5	Feasibility NSF	1,200	Revit Sync Date	2021-04-05
				Space Type	Education-Teaching Lab
				UWEC FICM Number	210 - Class Laboratory
				Science	BIO-6 - Anatomy
				Activity	EDU - Education/Training

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 01.210.0002

CASEWORK

CASEWORK TYPE

Fixed Casework	☑
Movable Casework	☐
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

student workstations will need one fixed cabinet per seat to store student microscopes at point of use

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☑	(Qty: 0)
Other:	☐	

COMMENTS

students will be performing organ dissection at their workstations. Each workstation needs an articulate arc fume hood (ceiling mounted)

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

quiet fans please

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☑ (2)
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

wall mounted drying racks for glassware mounted above all sinks

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

weather resistant outlets
student stations need hardwired outlets at each so microscopes can be plugged in
data and electric needed at teaching station in front

Room Function Number: 01.210.0002

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

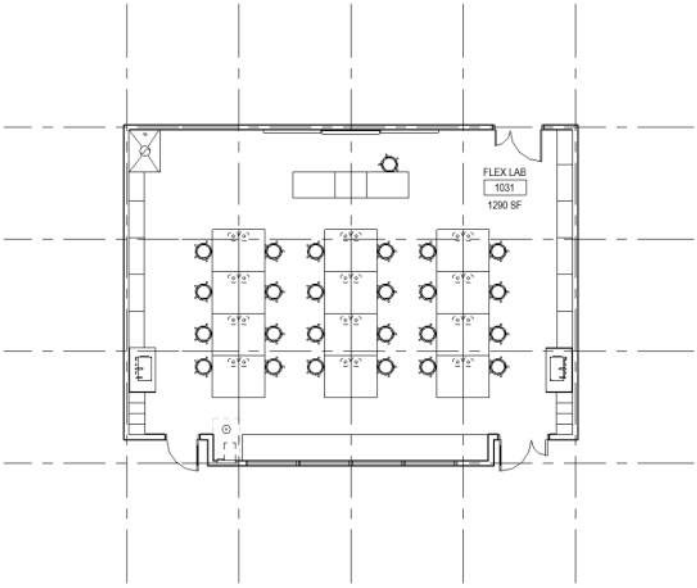
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

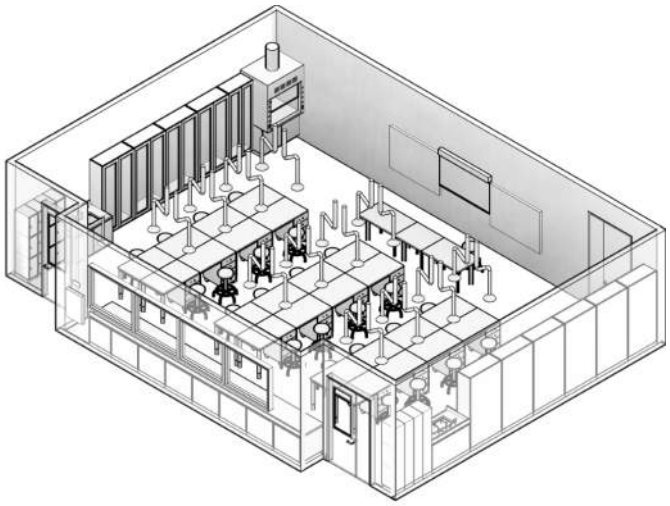
COMMENTS

two total displays at front of room (far left and right)
bulletin board for hanging posters

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.210.0006

Room Name	Flexible Teaching Lab -1
Function Location:	01 - Biology / 210 - Class Laboratory
Room Data Status	From TL_FLEX-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	223
IFCID	2H7KJxM0P4MBX0bmoYRihW
Revit Level	LEVEL 1

Areas

Programmed	1,290.00
Actual	1,342.31
Height:	0
Perimeter:	147.33
Feasibility NSF	1,200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory
Science	BIO-4 - Biology (general)
Activity	EDU - Education/Training

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☑	refrigerator (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☑	vibratome (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 3	☑	water bath (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 4	☑	desktop centrifuge (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 5	☑	stirrer/hotplates (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 6	☑	balances (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 7	☑	computers/workstations (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

quiet fans please

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.210.0006

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

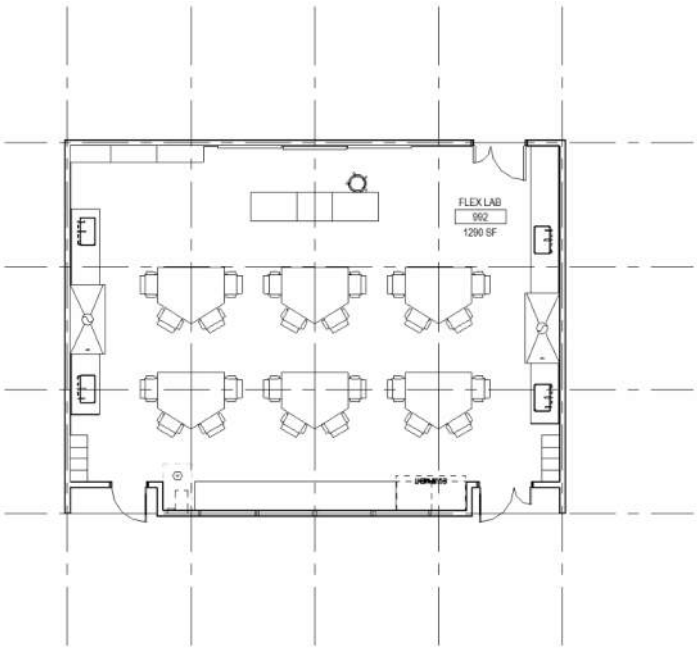
AUDIO VISUAL

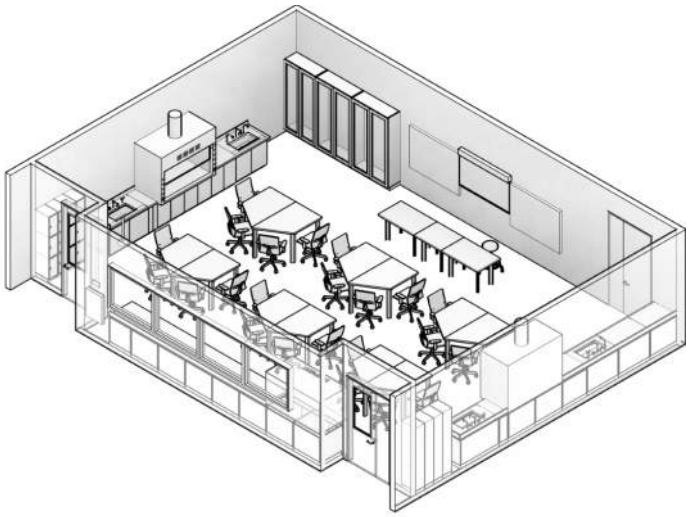
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS will/can this contain a prep area?





Room Function Number: 01.210.0007

Room Name	Flexible Teaching Lab -2
Function Location:	01 - Biology / 210 - Class Laboratory
Room Data Status	From TL_FLEX-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	151
IFCID	2H7KJxM0P4MBX0bmoYRihl
Revit Level	LEVEL 1

Areas

Programmed	1,290.00
Actual	1,376.79
Height:	0
Perimeter:	147.33
Feasibility NSF	1,200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory
Science	BIO-4 - Biology (general)
Activity	EDU - Education/Training

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

assuming these are appropriate for ecology courses

ARCHITECTURAL

WALLS/PARTITIONS

- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION

- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING

- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE

- [x] Applied
- [ ] Integral

Material:

CEILINGS

- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

adjacent to prep room with window access

do we need rubber flooring in a teaching lab?

Room Function Number: 01.210.0007

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

long tables with epoxy countertops that radiate out from the "smart" teaching station at the front of the room.

need microscope cabinets

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☑	refrigerator/freezer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐			
Item 3	☐			
Item 4	☐			
Item 5	☐			
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	quiet

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

quiet fans please

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☑
Other:	☐

COMMENTS

want the room well-lit with natural light maximized

Room Function Number: 01.210.0007

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

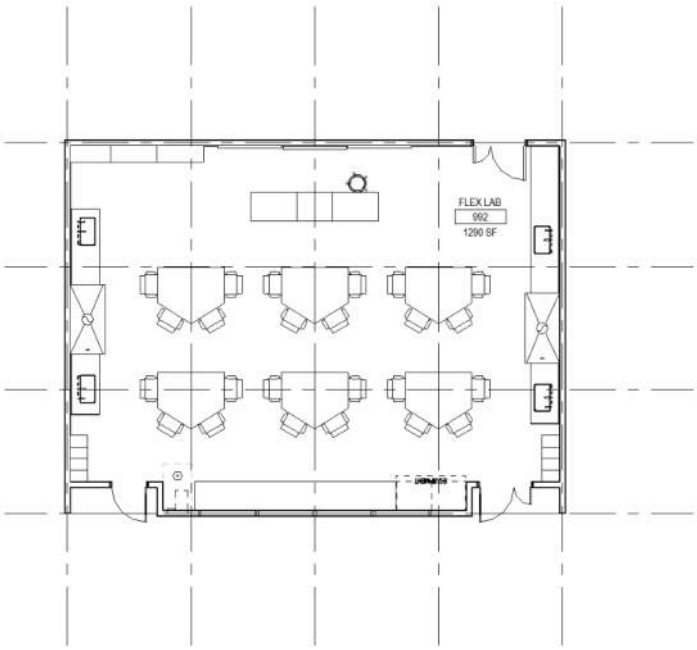
COMMENTS

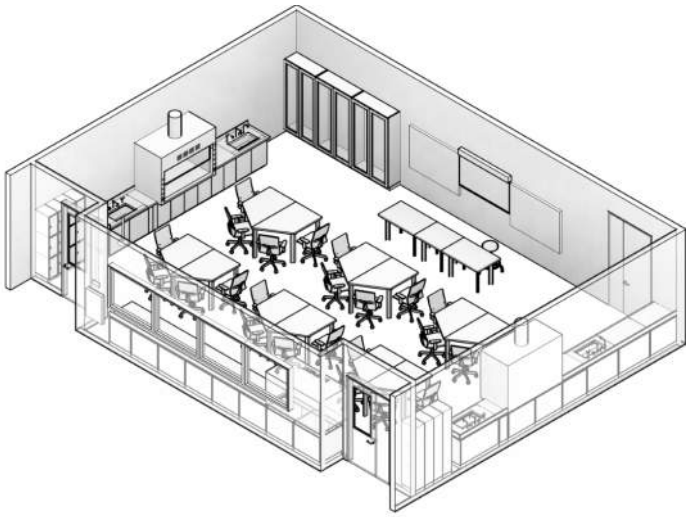
"smart" teaching station for lighting, projector, sound control, etc.

whiteboards the length of 3 walls

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.210.0008

Room Name	Flexible Teaching Lab -3
Function Location:	01 - Biology / 210 - Class Laboratory
Room Data Status	From TL_FLEX-E
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	325, 338, 318, 308
IFCID	2H7KJxM0P4MBX0bmoYRihg
Revit Level	LEVEL 1

Areas

Programmed	1,290.00
Actual	1,342.31
Height:	0
Perimeter:	148
Feasibility NSF	1,200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-27
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory
Science	BIO-4 - Biology (general)
Activity	EDU - Education/Training

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

this seems somewhat absurd to me and not in keeping with the fact that many of these lab rooms require set up and take down that is specific to that lab, meaning that multiple different classes cannot feasibly take place in the same room during the same semester

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 01.210.0008

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☑
Glass	☐
Other:	☐

COMMENTS

if this space will be used for dissection, some stainless steel shelving in cabinetry would be helpful

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 01.210.0008

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

ensure that exhaust air is fire alarm safe

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

seems like we as a department should decide what kind of gas, vac, and/or compressed air makes sense for a lab designated to be flexible use so there is some consistency or there is a decision to make some proportion of these kinds of rooms with these plumbing options

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.210.0008

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

key lock minimum

AUDIO VISUAL

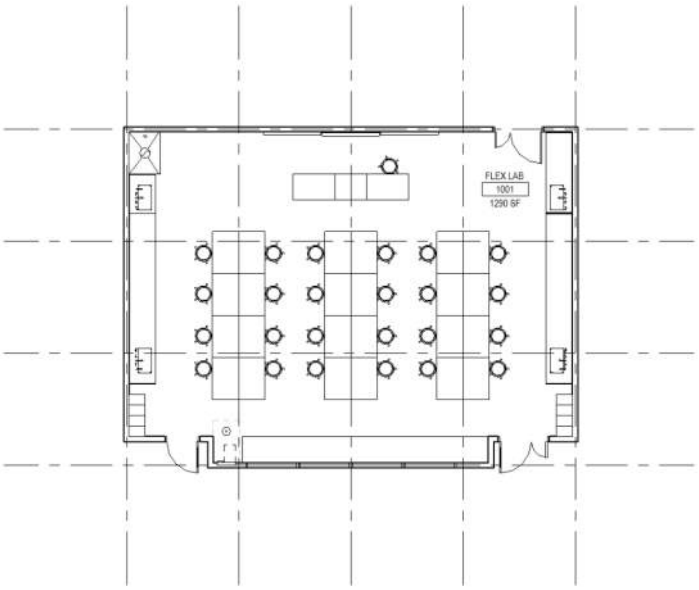
Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

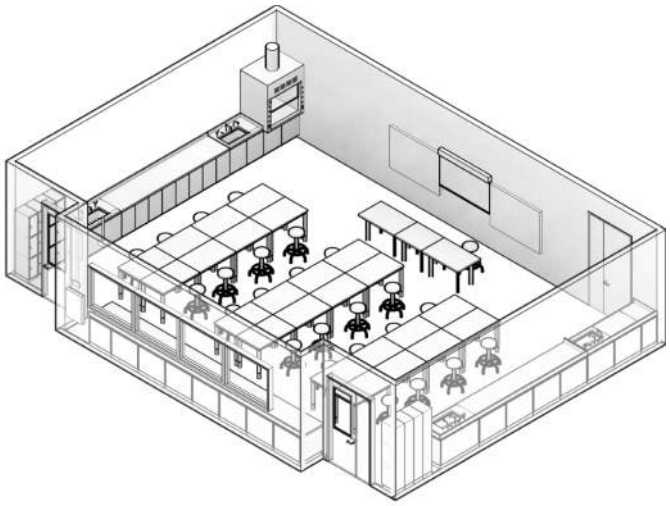
COMMENTS

for a room this size a single flat panel will not be sufficient, need projection

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.210.0009

Room Name	Flexible Teaching Lab -4
Function Location:	01 - Biology / 210 - Class Laboratory
Room Data Status	From TL_FLEX-F
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	319, 365, 356, 328
IFCID	2H7KJxM0P4MBX0bmoYRihf
Revit Level	LEVEL 1

Areas

Programmed	1,290.00
Actual	1,376.79
Height:	0
Perimeter:	147.33
Feasibility NSF	1,200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory
Science	BIO-4 - Biology (general)
Activity	EDU - Education/Training

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.210.0009

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

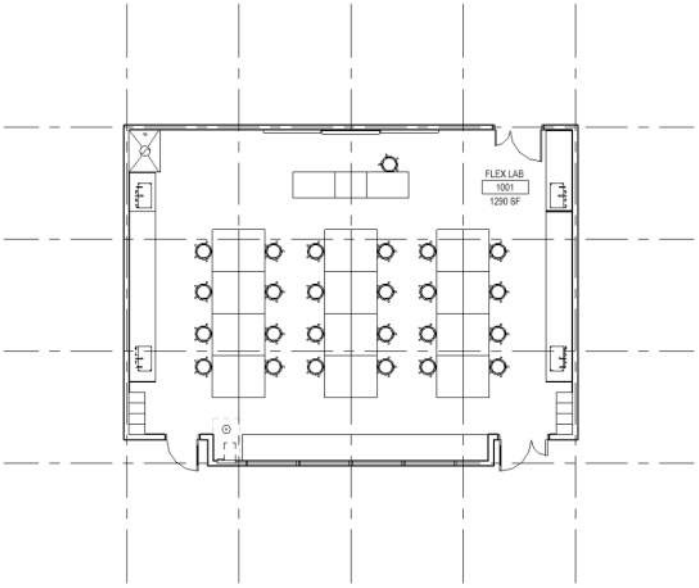
AUDIO VISUAL

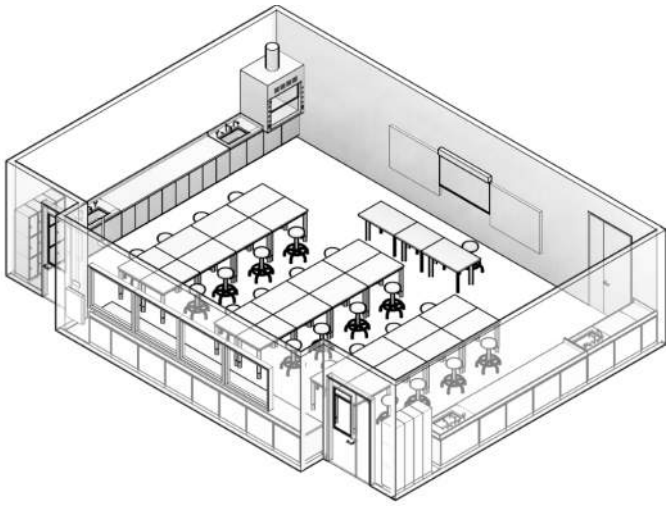
Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.210.0014

Room Name	Flexible Teaching Lab - with hood
Function Location:	01 - Biology / 210 - Class Laboratory
Room Data Status	From TL_FLEX-E
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	221
IFCID	08FLbL28D2ZPVIVJVyBzO7
Revit Level	LEVEL 4

Areas

Programmed	1,290.00
Actual	1,328.25
Height:	0
Perimeter:	147.33
Feasibility NSF	1,200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory
Science	BIO-4 - Biology (general)
Activity	EDU - Education/Training

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

this seems somewhat absurd to me and not in keeping with the fact that many of these lab rooms require set up and take down that is specific to that lab, meaning that multiple different classes cannot feasibly take place in the same room during the same semester

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 01.210.0014

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☑
Glass	☐
Other:	☐

COMMENTS

if this space will be used for dissection, some stainless steel shelving in cabinetry would be helpful

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 01.210.0014

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

ensure that exhaust air is fire alarm safe

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

seems like we as a department should decide what kind of gas, vac, and/or compressed air makes sense for a lab designated to be flexible use so there is some consistency or there is a decision to make some proportion of these kinds of rooms with these plumbing options

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.210.0014

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

key lock minimum

AUDIO VISUAL

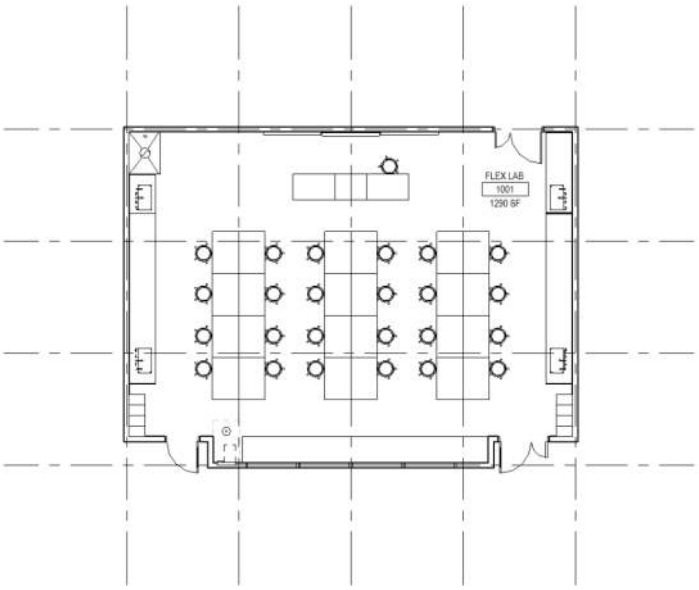
Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

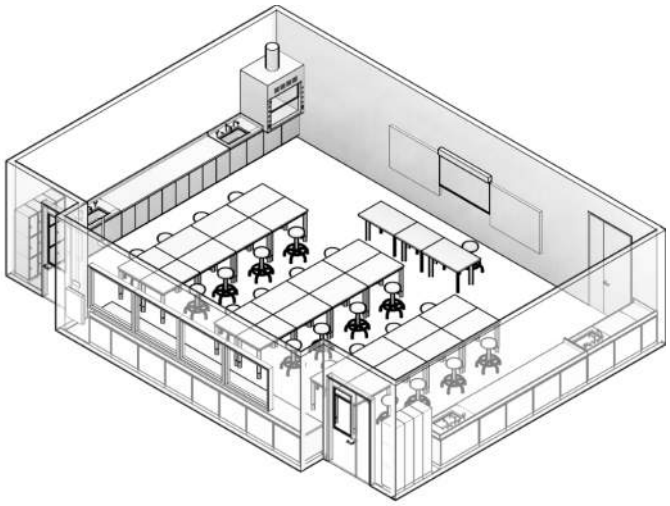
COMMENTS

for a room this size a single flat panel will not be sufficient, need projection

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.210.0015

Room Name	Flexible Teaching Lab - with hood
Function Location:	01 - Biology / 210 - Class Laboratory
Room Data Status	From TL_FLEX-E
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	380, 311, 376, 317, 345
IFCID	08FLbL28D2ZPVIVJVyBzHs
Revit Level	LEVEL 4

Areas

Programmed	1,290.00
Actual	1,328.25
Height:	0
Perimeter:	147.33
Feasibility NSF	1,200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory
Science	BIO-4 - Biology (general)
Activity	EDU - Education/Training

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

this seems somewhat absurd to me and not in keeping with the fact that many of these lab rooms require set up and take down that is specific to that lab, meaning that multiple different classes cannot feasibly take place in the same room during the same semester

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 01.210.0015

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☑
Glass	☐
Other:	☐

COMMENTS

if this space will be used for dissection, some stainless steel shelving in cabinetry would be helpful

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 01.210.0015

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

ensure that exhaust air is fire alarm safe

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

seems like we as a department should decide what kind of gas, vac, and/or compressed air makes sense for a lab designated to be flexible use so there is some consistency or there is a decision to make some proportion of these kinds of rooms with these plumbing options

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.210.0015

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

key lock minimum

AUDIO VISUAL

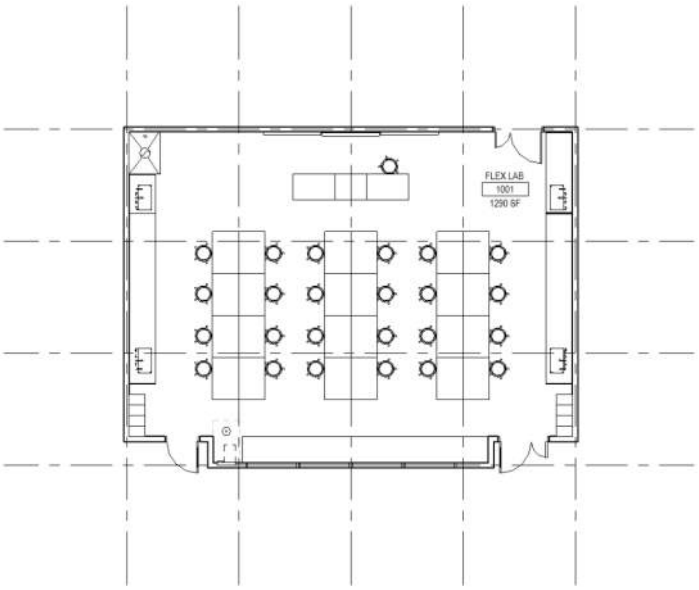
Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

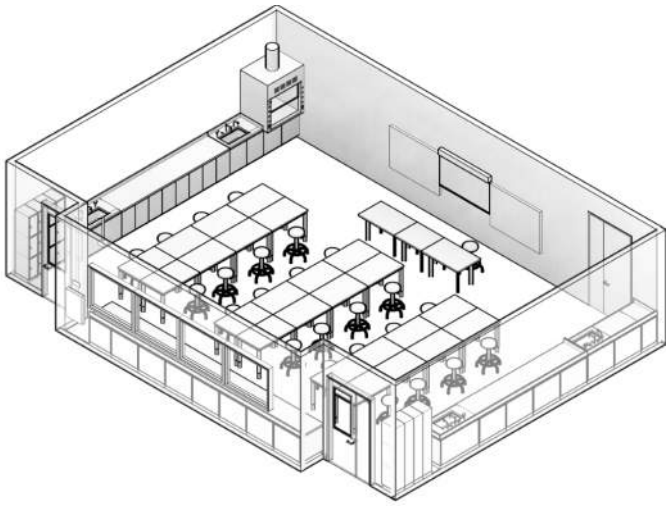
COMMENTS

for a room this size a single flat panel will not be sufficient, need projection

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.210.0016

Room Name	Microbiology Teaching Lab
Function Location:	01 - Biology / 210 - Class Laboratory
Room Data Status	Unique
Last modified	Thelen, Jessica, 3/11/2021 5:07 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	361
IFCID	2n8vGMyaP8fwASZkHsKbgJ
Revit Level	LEVEL 3

Areas

Programmed	1,290.00
Actual	1,328.25
Height:	0
Perimeter:	147.33
Feasibility NSF	1,200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory
Science	BIO-16 - Microbiology
Activity	EDU - Education/Training

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION

- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING

- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE

- [x] Applied
- [ ] Integral

Material:

CEILINGS

- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [x] Other:

DOOR 1

Size: 3'-0" x 8'-0"

Type: 1/2 Vision Panel

Material: Wood

DOOR 2

Size: 4'-6" x 8'-0"

Type: 1/2 Vision Panel

Material: Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

cleanable ceilings

non porous surfaces

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☑	Metal	☑
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

lower cabinets large enough to store microscopes

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☑	(Qty: 0)
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☑	incubator (Qty: 2)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐			
Item 3	☐			
Item 4	☐			
Item 5	☐			
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	75 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	50 F Range +/-: 5
Relative Humidity Heating:	72 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (4)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

benchtop sinks with cold water service.
1 sink per pair of students to be used for staining
special collection for runoff stain?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

illuminate bench instead of isles

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.210.0017

Room Name	Molecular / Biochemistry Teaching Lab - 1
Function Location:	01 - Biology / 210 - Class Laboratory
Room Data Status	Unique
Last modified	Thelen, Jessica, 3/10/2021 2:40 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	1,290.00	Borrowed Light	Control
User Room Number		Actual	1,328.25	From Model Phase	New Construction
Course Number(s)	324, 460	Height:	0	Occupant	24
IFCID	2n8vGMyaP8fwASZkHsKbjf	Perimeter:	147.33	Revit Model	UWEC-HOK-AR
Revit Level	LEVEL 3	Feasibility NSF	1,200	Revit Sync Date	2021-04-05
				Space Type	Education-Teaching Lab
				UWEC FICM Number	210 - Class Laboratory
				Science	BIO-1 - Biochemistry
				Activity	EDU - Education/Training

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☑
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☑
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☑
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☑ Rubber

FLOOR BASE
- Applied ☑
- Integral ☐
- Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
- Size: 3'-0" x 8'-0"
- Type: 1/2 Vision Panel
- Material: Wood

DOOR 2
- Size: 4'-6" x 8'-0"
- Type: 1/2 Vision Panel
- Material: Wood

DOOR 3
- Size:
- Type:
- Material:

HAZARD / SHIELDING
Type:

COMMENTS
design ceiling/HVAC system so that the noise in the room is minimized. this is a problem in the current space.
just standard materials, configuration for cell/ molecular biology lab needed

Room Function Number: 01.210.0017

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

if the benches at which the students are working are movable, they need to be rock solid. they cannot shift if a student accidentally knocks against one

a lot of storage is needed for a cell/molecular lab (glassware, small equipment, consumables like tips, vials, and tubes, etc.) either this storage will need to be present in the teaching lab itself or in an adjoining prep area

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 2) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

at least one of the two programmed molecular/biochemistry teaching labs will need to be in close proximity to the teaching tissue culture area.

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

some of this information is coming. many large pieces of equipment are associated with a lab like this (refrigerators, freezers, gel documentation systems, incubators, centrifuges, etc.) but it is better to have these housed in a connected prep/equipment area than to use the floor space in the teaching lab itself.

HVAC

ENVIRONMENT

Design Temp Cooling:	75 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	50 F Range +/-: 5
Relative Humidity Heating:	72 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

gas could be useful in these labs to be able to use burners

if DI/RO water is not in room itself then it can be in a connected prep/equipment room

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

student work benches do need power outlets (2 outlets per student)

perimeter benches need A LOT of outlets for plugging in lots of small pieces of benchtop equipment

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

need some sort of locks for the doors

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

very large flat panel display, or multiple
ability to link microscope cameras to display system is important
lots of whiteboard space. make sure it is not covered by a projection screen if there is one in the room.

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS	would be great if the room had a meeting/group work area separate from the wet lab work areas. some place where the groups could sit together at tables, have computers plugged in, and have discussions and do data analysis. its important that this would bein the same room (not a separate room). however, the prototype diagrams suggest this is not feasible with the floor space currently allocated.

Room Function Number: 01.210.0019

Room Name	Neurology Teaching Lab
Function Location:	01 - Biology / 210 - Class Laboratory
Room Data Status	From TL_FLEX-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	125, 358, 351,
IFCID	08FLbL28D2ZPVIVJVyBzHx
Revit Level	LEVEL 4

Areas

Programmed	1,290.00
Actual	1,328.25
Height:	0
Perimeter:	147.33
Feasibility NSF	1,200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory
Science	BIO-19 - Neuroscience
Activity	EDU - Education/Training

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 01.210.0019

CASEWORK

CASEWORK TYPE

Fixed Casework	☑
Movable Casework	☐
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

student workstations will need one fixed cabinet per seat to store student microscopes at point of use

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☑	(Qty: 0)
Other:	☐	

COMMENTS

students will be performing organ dissection at their workstations. Each workstation needs an articulate arc fume hood (ceiling mounted)

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

quiet fans please

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☑ (2)
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

wall mounted drying racks for glassware mounted above all sinks

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

weather resistant outlets
data and electric needed at teaching station in front

Room Function Number: 01.210.0019

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

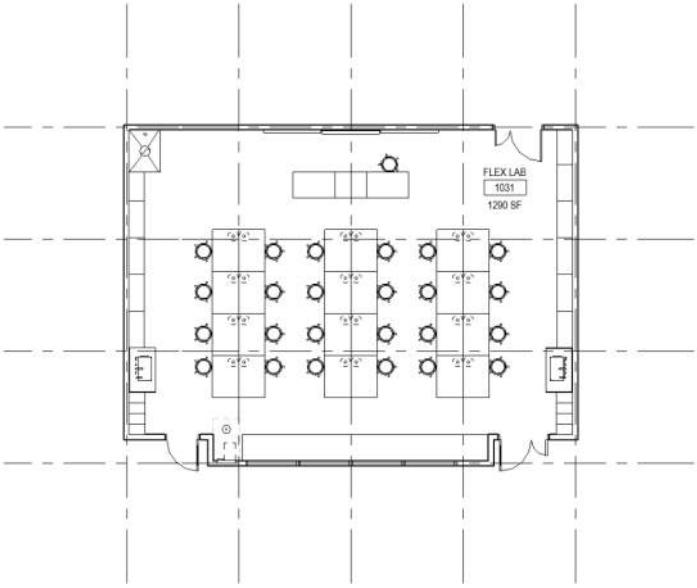
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

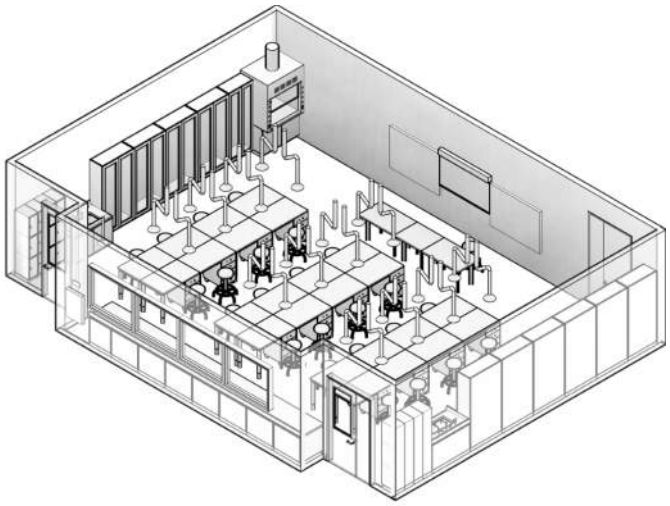
COMMENTS

two total displays at front of room (far left and right)
bulletin board for hanging posters

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.215.0001

Room Name	Animal Collection
Function Location:	01 - Biology / 215 - Class Laboratory Service
Room Data Status	From TL_STORAGE-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	08FLbL28D2ZPVIVJVyBzL$
Revit Level	LEVEL 4

Areas

Programmed	200.00
Actual	203.44
Height:	0
Perimeter:	64
Feasibility NSF	200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab Support
UWEC FICM Number	215 - Class Laboratory Service
Science	BIO-4 - Biology (general)
Activity	EDU - Education/Training

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

- 8 hours/day ☐
- 14 hours/day ☑
- 24 hours/day ☐
- Other: ☐

COMMENTS

is the anticipation that this room will hold birds, mammals, herps, fish, insect, and inverts?

Room Function Number: 01.215.0001

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☑
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☑ high density

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐

Room Function Number: 01.215.0001

EXHAUST DEVICES

ADA Hoods: ☐
Point Exhaust: ☐
Other: ☐

COMMENTS

EQUIPMENT

Item 1 ☐
Item 2 ☐
Item 3 ☐
Item 4 ☐
Item 5 ☐
Item 6 ☐
Item 7 ☐
Item 8 ☐
Item 9 ☐
Item 10 ☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling: 72 F Range +/-: 0
Relative Humidity Cooling: 50 % Range +/-: 0
Design Temp Heating: 72 F Range +/-: 0
Relative Humidity Heating: 25 % Range +/-: 0
Supply Air Filtration
Air Change Rate (ac/hr): 6
Room Pressure Indicator ☐
Pressure Monitor ☐
Laminar Flow Distribution ☐
Exhaust Air Filtration
Exhaust Air: 100% Exhausted ☑
Exhaust Air: Recirculated Air per ASHRAE 62.1 ☐
Low Wall Exhaust ☐

ACOUSTIC

Sound Transmision Class:
Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection: ☐
Other: ☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS): ☐
Vacuum (VAC): ☐
Carbon Diox. (CO2): ☐
Compressed Air (CA): ☐
Chilled Water (CW S/R): ☐
Nitrogen (N2): ☐
Helium (He): ☐
Argon (Ar): ☐
Oxygen (O2): ☐
Hydrogen (H): ☐
Liq Nitrogen (LN2): ☐
Special Gas 1 (SG1): ☐
Special Gas 2 (SG2): ☐
Other: ☐

SINKS

Standard ☐
ADA ☐
Scullery ☐
Epoxy ☐
Stainless Steel ☐
Marine Edge ☐

SERVICES AT SINKS

Hot Water (HW) ☐
Cold Water (CW) ☐
High Purity Water ☐
Eye Wash ☐
Drench Hose ☐
DI/RO Water (DI/RO): ☐

OTHER

Floor Drain (FD) ☐
Floor Sink (FS) ☐
Trench Drain (TD) ☐
Safety Shower (SS) ☐
Eye Wash (EW) ☐
Other: ☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

key or card

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Is the anticipation that this room will hold birds, mammals, herps, fish, insect and inverts?
All cabinets should be metal and sealed, allowing fumigants if necessary (but not preferable if room is sealed).
Additional new museum quality cabinets and drawers may be needed to house specimens
Dermestid beetles and dust will damage specimens
Any possibility of double door entry to minimize insects, mice, pathogens
can other natural history collections be examined? See UW-M or UW-SP to see models of curated collection.
cabinets currently holding insects and vertebrates will need a location as well.
small counter area woul dbe good
open shelving may not be necessary if we can have stacking lane cabinets and a safety ladder to access upper doors and drawers

Room Function Number: 01.215.0007

Room Name	Prep Lab
Function Location:	01 - Biology / 215 - Class Laboratory Service
Room Data Status	Unique
Last modified	Thelen, Jessica, 3/11/2021 4:16 PM

Categorization

Room Number	
User Room Number	
IFCID	08FLbL28D2ZPVIVJVyBzKT
Revit Level	LEVEL 4

Areas

Programmed	1,408.00
Actual	0.00
Height:	0
Perimeter:	91
Feasibility NSF	1,408

Groups / Classifications / Status

Borrowed Light	Control
Containment Level	BSL-2
From Model Phase	New Construction
Occupant	4
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab Support
UWEC FICM Number	215 - Class Laboratory Service
Science	BIO-4 - Biology (general)
Activity	EDU - Education/Training

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

the prep lab is a unique space used to actively service the following courses: BIOL221, BIOL324, BIOL318, BIOL223, BIOL358, and less so for others. This space is also used to build, repair, calibrate, clean, and inventory instrumentation across biology. Solutions are made and dilutions are performed here requiring bench spaces and specialized instrumentation. I would like to emphasize that there are lab modules in the Foundations courses which require specializes services what include materials and techniques used in microbiology, molecular biology, as well as animal and plant biologies. Cold rooms and ice machines should be nearby if not in the Prep Lab space itself. Available cold rooms would be very helpful in staging larger classes and multiple sections all at once and stored to be pilled throughout the week of that lab, rather than constantly having to replenish and refill which wastes time, labor, and opportunities to improve the system.

Room Function Number: 01.215.0007

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐
- Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
- Size:
- Type:
- Material:

DOOR 2
- Size:
- Type:
- Material:

DOOR 3
- Size:
- Type:
- Material:

HAZARD / SHIELDING
- Type:

COMMENTS
flooring that can be easily mopped, cleaned, and swept is essential throughout the PrepLab. it should be light in color so you dont lose items that are dropped.

CASEWORK

CASEWORK TYPE
- Fixed Casework ☑
- Movable Casework ☑
- Wall Cabinets ☑
- Wall Shelves ☑
- Lockable Cabinets ☑
- Other: ☐

CASEWORK MATERIAL
- Metal ☑
- Wood ☐
- Stainless Steel ☐
- Other: ☐

BENCHTOP MATERIAL
- Epoxy ☐
- Wood ☐
- Stainless Steel ☐
- Plastic Laminate ☐
- Phenolic ☐
- Other: ☐

SHELVING MATERIAL
- Metal ☑
- Wood ☐
- Stainless Steel ☐
- Glass ☐
- Other: ☐

COMMENTS
benchtop should be heat and cold resistant and easily cleaned. level for scale use and plate pouring etc.
inert, rust resistant materials are preferable for shelving. will mostly house chemical and solutions.

EXHAUST DEVICES
- Benchtop Fume Hoods: ☑ (Qty: 0)
- Walk-in Fume Hoods: ☐
- Radioisotope Hoods: ☐
- Perchloric Hoods: ☐
- Bio Safety Cabs: ☐
- Vert Lam Flow Hoods: ☑ (Qty: 0)
- Hori Lam Flow Hoods: ☐
- Polypropylene Hoods: ☐
- Canopy Hoods: ☐
- ADA Hoods: ☐

EXHAUST DEVICES

Point Exhaust: ☑ (Qty: 0)
Other: ☐

COMMENTS

fume hood for handling hazardous volatile materials, highly acidic, or requires careful handling. at this time no such equipment is conveniently located in the PrepLab. Hazardous materials are being moved down hallways. past classrooms or office spaces, to and from the hoods. in other instances we just hold our noses and try to work quickly to limit exposure. this is dangerous practice and i would like to remedy this. presently there is no room in the PrepLab for a fumehood. it would be used weekly.

a vertical laminar flor hood is presently in the PrepLab and is used for work requiring a sterile environment such as preparation or microbiological plant tissue culture and C.elegants media to service lab class preparation or testing of new modules for instructional, curriculum, development or research purposes.

a room housing a frequently used autoclave would benefit from some kind of exhaust system that will pull steam and noxious smells and fumes from processed sterilized materials form the space. presently, smells from our autoclaves have been the headache (literally) of occupants who share the same wing of the building especially to those who don't normally work with these materials. In addition to pulling strong smells, this auxillary venting system can also pull noxious fumes (if materials were erroneously autoclaved)

EQUIPMENT

Item 1	☑ Incubators (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 2	☑ Dishwasher (Qty: 1)	Vib. Sens. ☐	Vib. Cause ☐	Notes: kitchen size
Item 3	☑ Nanopure water purification system (Qty: 1)	Vib. Sens. ☐	Vib. Cause ☐	
Item 4	☑ refrigerator/freezer (Qty: 2)	Vib. Sens. ☐	Vib. Cause ☐	
Item 5	☑ ultralow freezer (Qty: 1)	Vib. Sens. ☐	Vib. Cause ☐	
Item 6	☑ refrigeration units (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 7	☑ autoclave (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 8	☑ flammables cabinet (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 9	☑ corrosives cabinet (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 10	☑ AED (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	

COMMENTS

smaller side room to house Autoclave, glassware, dishwasher, large sinks, fume hood, flammables cabinet and corrosives cabinet
smaller side room to house refrigeration units, 2 refrigerator/freezers, 1 ultralow freezer
space to accommodate laminar flow hood, free standing and plate pouring area, natural gas spouts throughout
glassware storage
inventory storage - scopes, balances, pipettors, replacement parts for servicing
office space
Preparation benches
Storage spaces for multiple carts

HVAC

ENVIRONMENT

Design Temp Cooling: 0 F Range +/-: 0
Relative Humidity Cooling: 0 % Range +/-: 0
Design Temp Heating: 0 F Range +/-: 0
Relative Humidity Heating: 0 % Range +/-: 0
Supply Air Filtration
Air Change Rate (ac/hr): 0
Room Pressure Indicator ☐
Pressure Monitor ☐
Laminar Flow Distribution ☐
Exhaust Air Filtration
Exhaust Air: 100% Exhausted ☐
Exhaust Air: Recirculated Air per ASHRAE 62.1 ☐
Low Wall Exhaust ☐

ACOUSTIC

Sound Transmision Class:
Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection: ☐
Other: ☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☑
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☐
Other:	☐

COMMENTS

large basin stainless sinks for dishwashing and handwashing

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☑
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☑ undercabinet lighting

COMMENTS

208V outlet for an ultralow freezer. this is used as a backup to support research freezers to be installed on a different power source than the others in the department. we had purchased the back up in order to save the materials in the other units in case of a meltdown.
i would preder to have my office and desk area with ethernet in the PrepLab. there should be an additional phone line for the ultra low freezer auxillary alarm system.

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ wifi

COMMENTS

PrepLab should be locked at all times and only accessible to PrepLab staff. is there a key system where a student worker can come into the PrepLab to access keys to other classrooms or specialty areas that we work in?
no black holes where wifi cannot reach

Room Function Number: 01.215.0007

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.215.0010

Room Name	Plant Collection
Function Location:	01 - Biology / 215 - Class Laboratory Service
Room Data Status	From TL_SPRT-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	08FLbL28D2ZPVIVJVyBzLy
Revit Level	LEVEL 4

Areas

Programmed	200.00
Actual	204.75
Height:	0
Perimeter:	60
Feasibility NSF	200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab Support
UWEC FICM Number	215 - Class Laboratory Service
Science	BIO-12 - Ecology
Activity	EDU - Education/Training

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☑
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☐
Glass	☐
Other:	☑ high density

COMMENTS

need specimen cabinets to house specimens - easy access for personnel, etc.
benchtop surface with room to spread samples

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐

EXHAUST DEVICES

ADA Hoods: ☐
Point Exhaust: ☐
Other: ☐

COMMENTS

EQUIPMENT

Item 1 ☐
Item 2 ☐
Item 3 ☐
Item 4 ☐
Item 5 ☐
Item 6 ☐
Item 7 ☐
Item 8 ☐
Item 9 ☐
Item 10 ☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling: 72 F Range +/-: 0
Relative Humidity Cooling: 50 % Range +/-: 0
Design Temp Heating: 72 F Range +/-: 0
Relative Humidity Heating: 25 % Range +/-: 0
Supply Air Filtration
Air Change Rate (ac/hr): 6
Room Pressure Indicator ☐
Pressure Monitor ☐
Laminar Flow Distribution ☐
Exhaust Air Filtration
Exhaust Air: 100% Exhausted ☑
Exhaust Air: Recirculated Air per ASHRAE 62.1 ☐
Low Wall Exhaust ☐

ACOUSTIC

Sound Transmision Class:
Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection: ☐
Other: ☐

COMMENTS

would be nice to have low humidity, either in the room or make sure cabinets have low humidity for specimen preservation

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS): ☐
Vacuum (VAC): ☐
Carbon Diox. (CO2): ☐
Compressed Air (CA): ☐
Chilled Water (CW S/R): ☐
Nitrogen (N2): ☐
Helium (He): ☐
Argon (Ar): ☐
Oxygen (O2): ☐
Hydrogen (H): ☐
Liq Nitrogen (LN2): ☐
Special Gas 1 (SG1): ☐
Special Gas 2 (SG2): ☐
Other: ☐

SINKS

Standard ☑ (1)
ADA ☐
Scullery ☐
Epoxy ☐
Stainless Steel ☐
Marine Edge ☐

SERVICES AT SINKS

Hot Water (HW) ☑
Cold Water (CW) ☑
High Purity Water ☐
Eye Wash ☐
Drench Hose ☐
DI/RO Water (DI/RO): ☐

OTHER

Floor Drain (FD) ☐
Floor Sink (FS) ☐
Trench Drain (TD) ☐
Safety Shower (SS) ☐
Eye Wash (EW) ☐
Other: ☐

COMMENTS

sink for sample prep

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.250.0001

Room Name	Aquatics Research - Open Lab
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	0EZDHbc4T2vxluHtdtVPeA
Revit Level	LEVEL 2

Areas

Programmed	456.00
Actual	456.28
Height:	0
Perimeter:	92.33
Feasibility NSF	443

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-27 - Animal Research
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

do we need rubber flooring?

Room Function Number: 01.250.0001

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

would like shelving above bench tops - see molecular suite design

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 0)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑ refrigerator/freezer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐		
Item 3	☐		
Item 4	☐		
Item 5	☐		
Item 6	☐		
Item 7	☐		
Item 8	☐		
Item 9	☐		
Item 10	☐		

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.250.0001

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

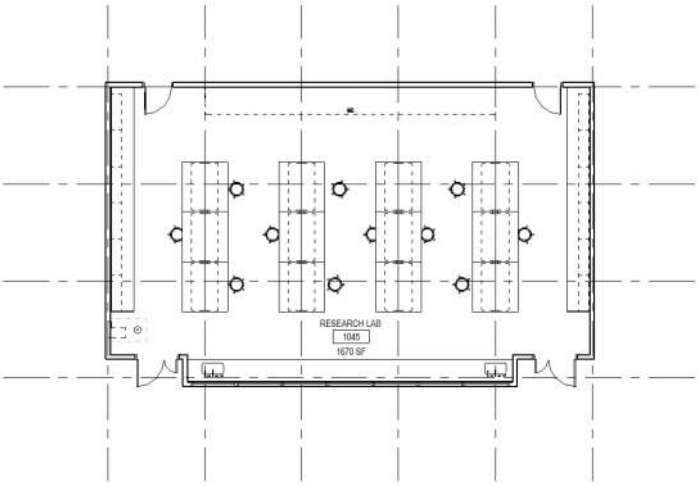
AUDIO VISUAL

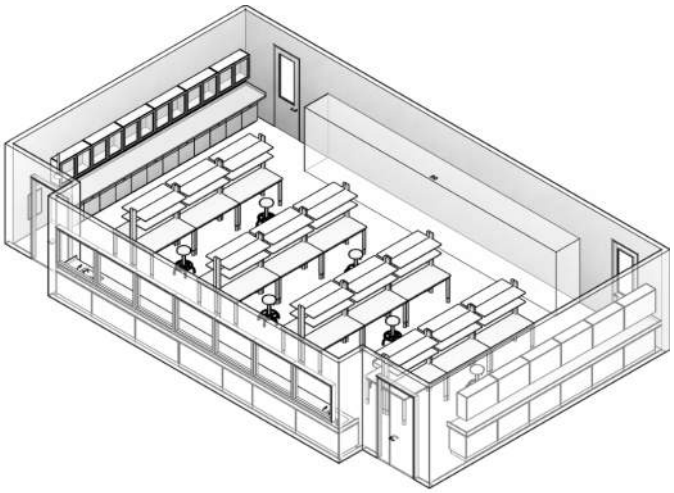
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.250.0003

Room Name	Ecology Research - Open Lab
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	08FLbL28D2ZPVIVJVyBzKi
Revit Level	LEVEL 4

Areas

Programmed	456.00
Actual	446.25
Height:	0
Perimeter:	91.33
Feasibility NSF	443

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	5
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-12 - Ecology
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

do we need rubber flooring?

Room Function Number: 01.250.0003

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

would like shelving above bench tops - see molecular suite design

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 0)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	refrigerator/freezer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐			
Item 3	☐			
Item 4	☐			
Item 5	☐			
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.250.0003

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

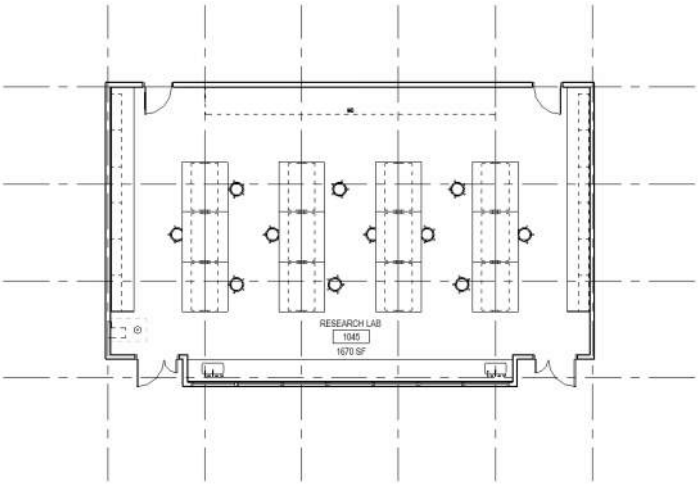
AUDIO VISUAL

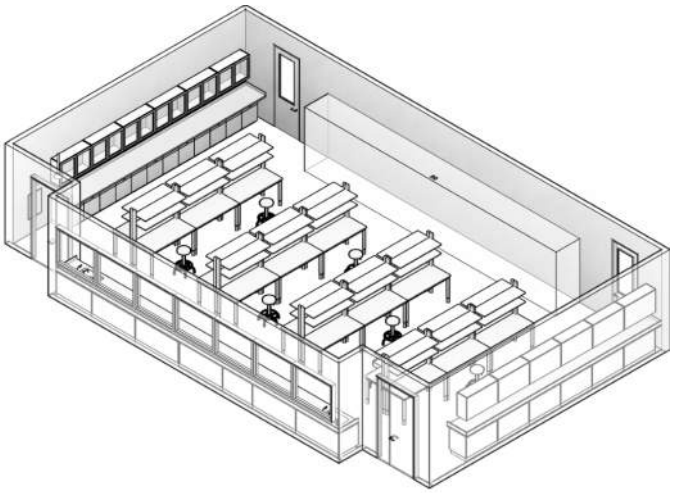
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.250.0004

Room Name	Ecology Research - Open Lab
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	08FLbL28D2ZPVIVJVyBzKH
Revit Level	LEVEL 4

Areas

Programmed	456.00
Actual	441.00
Height:	0
Perimeter:	91
Feasibility NSF	443

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	5
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-12 - Ecology
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

do we need rubber flooring?

Room Function Number: 01.250.0004

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

would like shelving above bench tops - see molecular suite design

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 0)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑ refrigerator/freezer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐		
Item 3	☐		
Item 4	☐		
Item 5	☐		
Item 6	☐		
Item 7	☐		
Item 8	☐		
Item 9	☐		
Item 10	☐		

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.250.0004

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

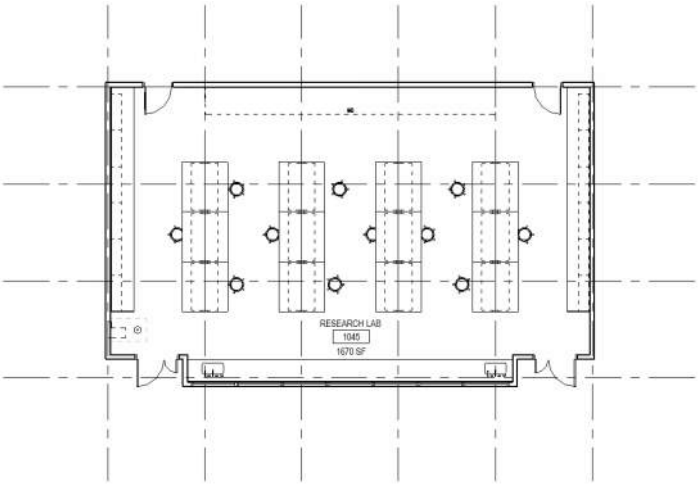
AUDIO VISUAL

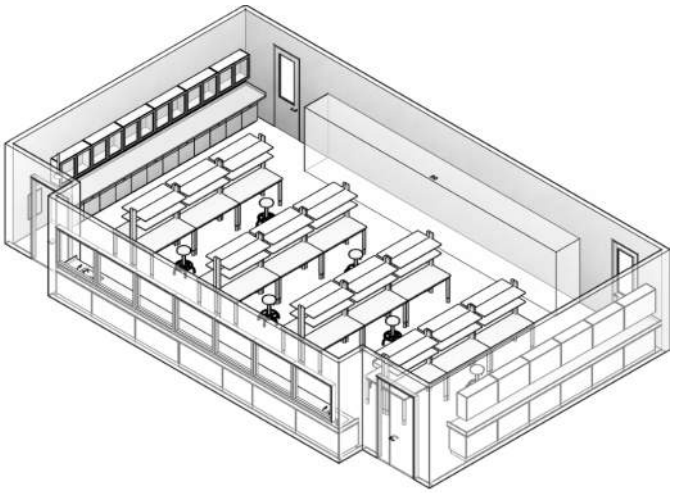
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.250.0005

Room Name	Ecology Research - Open Lab
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	08FLbL28D2ZPVIVJVyBzKM
Revit Level	LEVEL 4

Areas

Programmed	456.00
Actual	441.00
Height:	0
Perimeter:	91
Feasibility NSF	443

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	5
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-12 - Ecology
Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
do we need rubber flooring?

Room Function Number: 01.250.0005

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

would like shelving above bench tops - see molecular suite design

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 0)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	refrigerator/freezer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐			
Item 3	☐			
Item 4	☐			
Item 5	☐			
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.250.0005

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

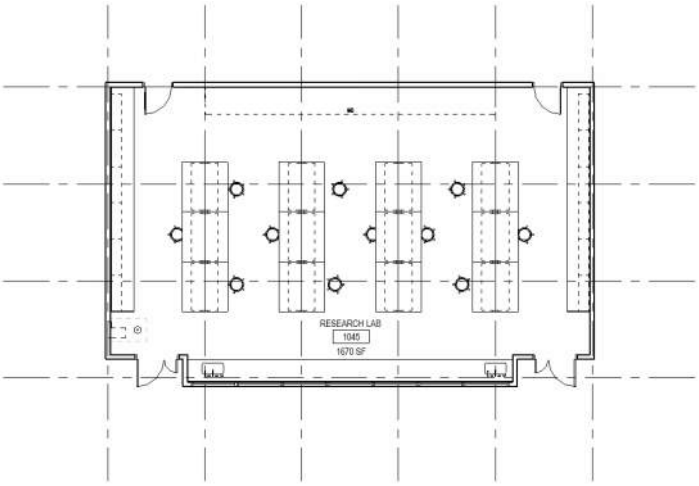
AUDIO VISUAL

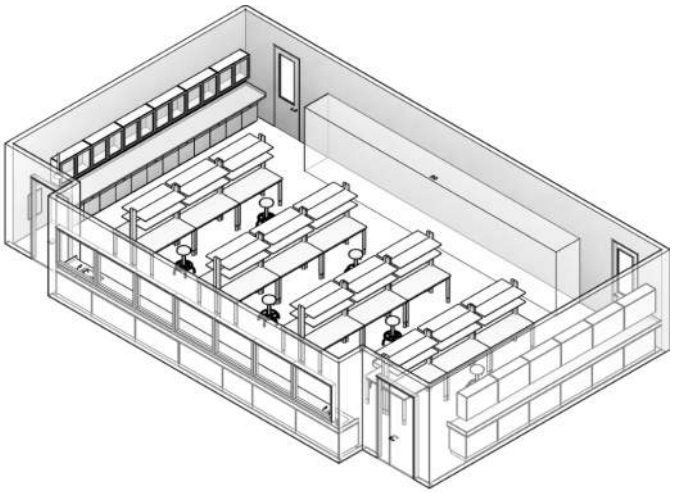
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.250.0006

Room Name	Ecology Research - Open Lab
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	08FLbL28D2ZPVIVJVyBzKR
Revit Level	LEVEL 4

Areas

Programmed	456.00
Actual	446.25
Height:	0
Perimeter:	91.33
Feasibility NSF	443

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	5
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-12 - Ecology
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION

- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING

- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE

- [x] Applied
- [ ] Integral

Material:

CEILINGS

- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1

Size: 3'-0" x 8'-0"

Type: 1/2 Vision Panel

Material: Wood

DOOR 2

Size: 4'-6" x 8'-0"

Type: 1/2 Vision Panel

Material: Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

do we need rubber flooring?

Room Function Number: 01.250.0006

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

would like shelving above bench tops - see molecular suite design

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 0)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑ refrigerator/freezer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐		
Item 3	☐		
Item 4	☐		
Item 5	☐		
Item 6	☐		
Item 7	☐		
Item 8	☐		
Item 9	☐		
Item 10	☐		

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.250.0006

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

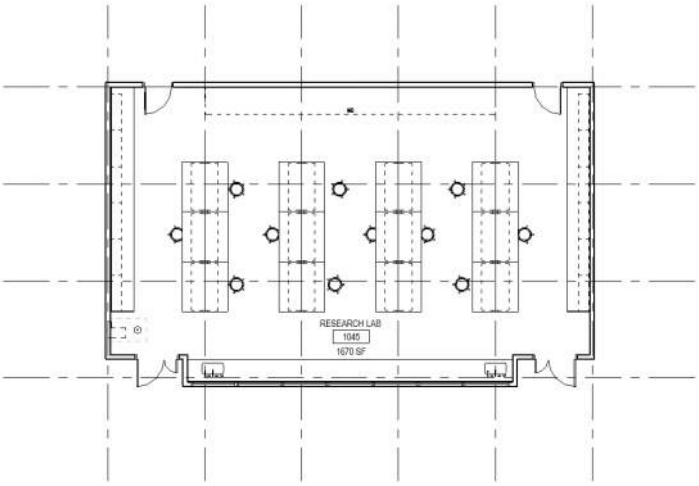
AUDIO VISUAL

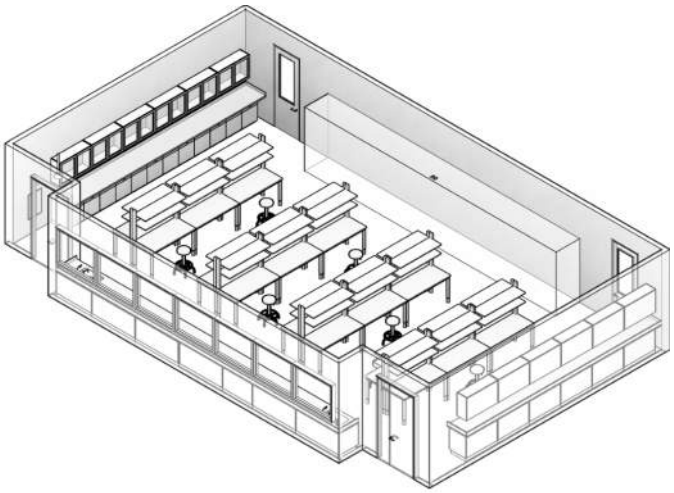
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.250.0007

Room Name	Ecology Research - Open Lab
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	08FLbL28D2ZPVIVJVyBzKO
Revit Level	LEVEL 4

Areas

Programmed	456.00
Actual	441.00
Height:	0
Perimeter:	91
Feasibility NSF	443

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	5
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-12 - Ecology
Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
do we need rubber flooring?

Room Function Number: 01.250.0007

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

would like shelving above bench tops - see molecular suite design

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 0)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	refrigerator/freezer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐			
Item 3	☐			
Item 4	☐			
Item 5	☐			
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.250.0007

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

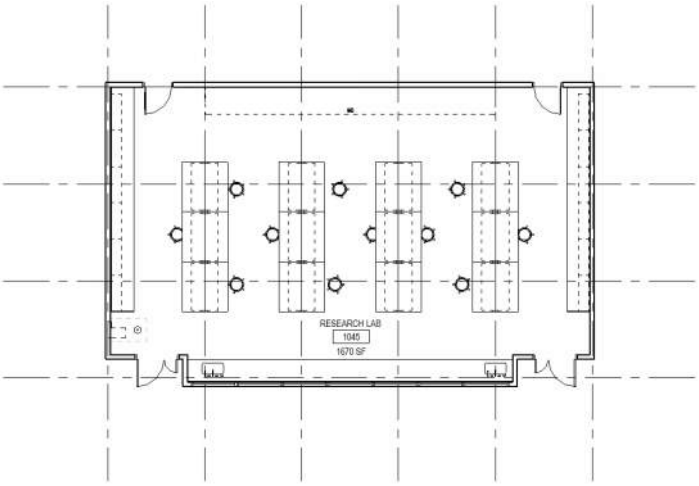
AUDIO VISUAL

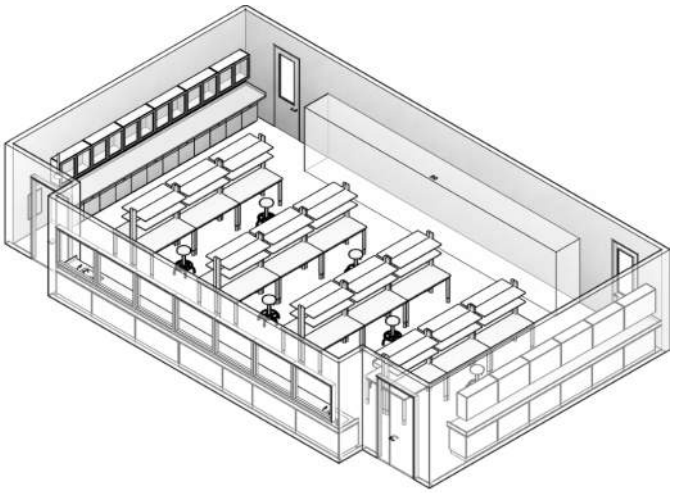
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.250.0009

Room Name	Microbiology Wet Bench Research - Open Lab
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOMICRO
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	2n8vGMyaP8fwASZkHsKby5
Revit Level	LEVEL 3

Areas

Programmed	456.00
Actual	488.25
Height:	0
Perimeter:	94
Feasibility NSF	443

Groups / Classifications / Status

Borrowed Light	Control
Containment Level	BSL-2
From Model Phase	New Construction
Occupant	3
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-16 - Microbiology
Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [x] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Metal

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Metal

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

ceiling needs to be such that is minimizes contamination and is cleanable

Room Function Number: 01.250.0009

CASEWORK

CASEWORK TYPE

Fixed Casework	☑
Movable Casework	☐
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

benchtops should be impervious to water and resistant to moderate temperatures

CASEWORK MATERIAL

Metal	☑
Wood	☐
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☑
Wood	☐
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐	
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☑	(Qty: 1) Size: 78x36x84
Vert Lam Flow Hoods:	☑	(Qty: 0)
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

standing fume hood

EQUIPMENT

Item 1	☑	Incubator (Qty: 1)	Vib. Sens. ☐	Vib. Cause ☐	
Item 2	☑	refrigerator (Qty: 1)	Vib. Sens. ☐	Vib. Cause ☐	Notes: -20C
Item 3	☑	refrigerator (Qty: 1)	Vib. Sens. ☐	Vib. Cause ☐	Notes: -4C
Item 4	☑	refrigerator (Qty: 1)	Vib. Sens. ☐	Vib. Cause ☐	Notes: -80C
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

-80C to be shared if not in common room (that is better option)

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not position diffusers so they blow out on work surfaces

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☑
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (4)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☑
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

distilled water, nanopure water

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

need to be able to see bench work

Room Function Number: 01.250.0009

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

doors should be self-locking

AUDIO VISUAL

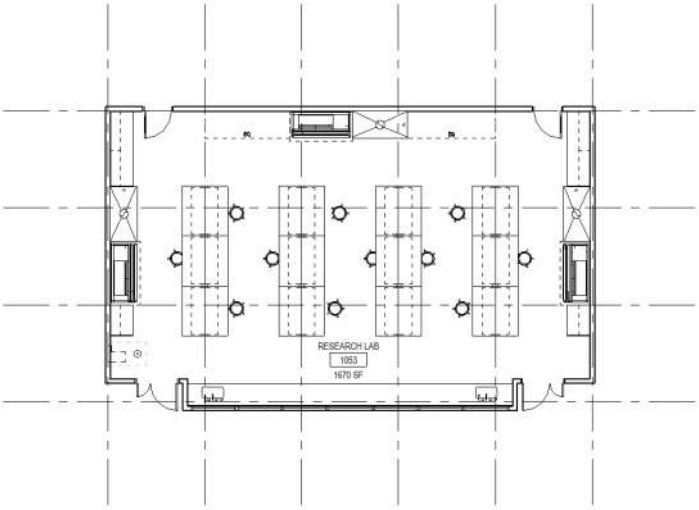
Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ prefer chalkboard over whiteboard

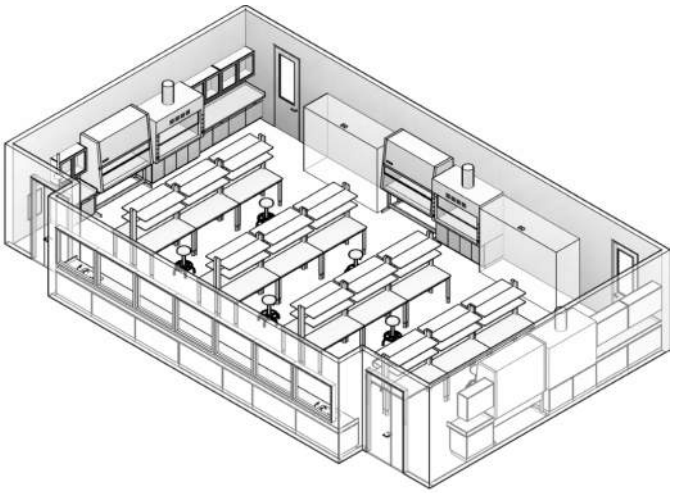
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

room should have sinks at end of benches
need benches for water shakers, incubators, pH meters
shelves along wall for storage
stand alone laminar flow hood
fume hood
each station on bench has gas, air, vacuum line
electrical outlets along bench
stainless steel sinks and faucets





Room Function Number: 01.250.0010

Room Name	Microbiology Wet Bench Research - Open Lab
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOMICRO
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	2n8vGMyaP8fwASZkHsKby0
Revit Level	LEVEL 3

Areas

Programmed	456.00
Actual	488.25
Height:	0
Perimeter:	94
Feasibility NSF	443

Groups / Classifications / Status

Borrowed Light	Control
Containment Level	BSL-2
From Model Phase	New Construction
Occupant	3
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-16 - Microbiology
Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [x] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Metal

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Metal

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

ceiling needs to be such that is minimizes contamination and is cleanable

Room Function Number: 01.250.0010

CASEWORK

CASEWORK TYPE

Fixed Casework	☑
Movable Casework	☐
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

benchtops should be impervious to water and resistant to moderate temperatures

CASEWORK MATERIAL

Metal	☑
Wood	☐
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☑
Wood	☐
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐	
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☑	(Qty: 1) Size: 78x36x84
Vert Lam Flow Hoods:	☑	(Qty: 0)
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

standing fume hood

EQUIPMENT

Item 1	☑	Incubator (Qty: 1)	Vib. Sens. ☐	Vib. Cause ☐	
Item 2	☑	refrigerator (Qty: 1)	Vib. Sens. ☐	Vib. Cause ☐	Notes: -20C
Item 3	☑	refrigerator (Qty: 1)	Vib. Sens. ☐	Vib. Cause ☐	Notes: -4C
Item 4	☑	refrigerator (Qty: 1)	Vib. Sens. ☐	Vib. Cause ☐	Notes: -80C
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

-80C to be shared if not in common room (that is better option)

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not position diffusers so they blow out on work surfaces

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☑
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (4)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☑
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

distilled water, nanopure water

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

need to be able to see bench work

Room Function Number: 01.250.0010

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

doors should be self-locking

AUDIO VISUAL

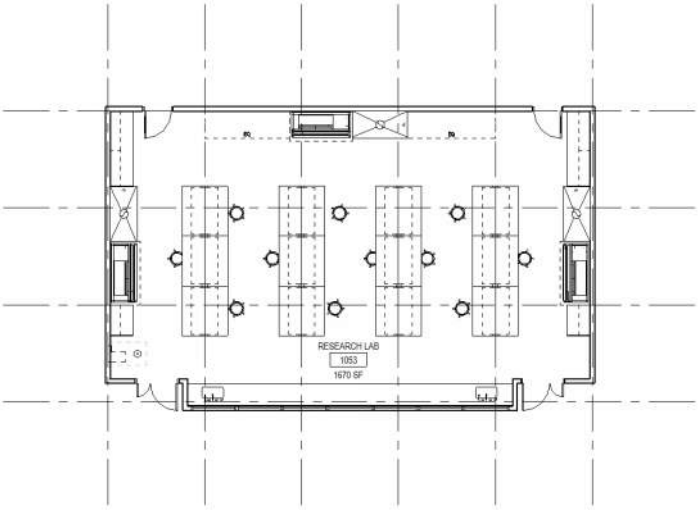
Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ prefer chalkboard over whiteboard

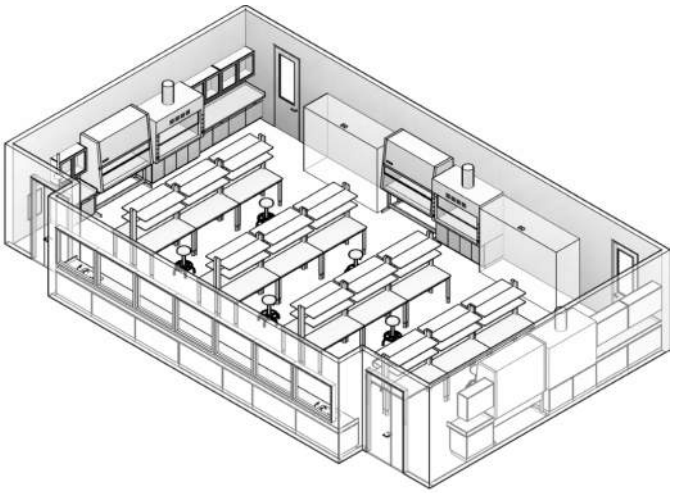
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

room should have sinks at end of benches
need benches for water shakers, incubators, pH meters
shelves along wall for storage
stand alone laminar flow hood
fume hood
each station on bench has gas, air, vacuum line
electrical outlets along bench
stainless steel sinks and faucets





Room Function Number: 01.250.0015

Room Name	Wet Bench Research - Flex Room
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	55.11	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKby9	Height:	0	Occupant	6
Revit Level	LEVEL 3	Perimeter:	31.67	Revit Model	UWEC-HOK-AR
		Feasibility NSF	57	Revit Sync Date	2021-04-07
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory
				Science	BIO-4 - Biology (general)
				Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

function and layout will depend on which research lab its associated with and how the PI's wish to use it. Assuming this is associated with a cell/molecular lab and isnt being used for a highly "specialized" use.

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

if these doors have vision panels there needs to be a way to block out the light and a way to indicate occupancy

Room Function Number: 01.250.0015

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☑
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

CASEWORK MATERIAL

Metal	☑
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☑
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

fixed casework is difficult to predict at this point. would be good to have at least a little cabinetry/shelves/counters, but be careful about filling too much of the footprint with fixed items that will need to be torn out for space or equipment in the future. Focusing on movable casework would be a good idea. one lockable cabinet/drawer per lab in case of controlled substances

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 0)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☑ (Qty: 0)
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

one of these rooms may need a fume hood (or other type of hood) but can't be predicted now

would be good to have a fume hood for all wet lab research rooms

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

ensure exhausted air is fire alarm safe

HVAC vents should not blow at the lab benches, this is a huge problem for microbiological work

if this is potentially a behavioral analysis room, sound and vibration will need to be limited.

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

gas and vacuum in one of these rooms, but not all

sinks in many of these rooms, but not all

is a safety shower necessary in a small room that will likely act as an auxiliary room to a larger research lab space?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☑ prefer no natural light

COMMENTS

the more outlets the better

some backup power outlets

Room Function Number: 01.250.0015

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

small wall mounted white board

flat panel display in some rooms but not all

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS: research labs in general need open space for refrigerators/freezers, other large pieces of equipment, potential storage of cylinders of gas, etc.

Room Function Number: 01.250.0016

Room Name	Wet Bench Research - Flex Room
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	55.11	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbyq	Height:	0	Occupant	6
Revit Level	LEVEL 3	Perimeter:	31.67	Revit Model	UWEC-HOK-AR
		Feasibility NSF	57	Revit Sync Date	2021-04-07
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory
				Science	BIO-4 - Biology (general)
				Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

function and layout will depend on which research lab its associated with and how the PI's wish to use it. Assuming this is associated with a cell/molecular lab and isnt being used for a highly "specialized" use.

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

if these doors have vision panels there needs to be a way to block out the light and a way to indicate occupancy

Room Function Number: 01.250.0016

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☑
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

fixed casework is difficult to predict at this point. would be good to have at least a little cabinetry/shelves/counters, but be careful about filling too much of the footprint with fixed items that will need to be torn out for space or equipment in the future. Focusing on movable casework would be a good idea. one lockable cabinet/drawer per lab in case of controlled substances

CASEWORK MATERIAL

Metal	☑
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☑
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 0)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☑ (Qty: 0)
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

one of these rooms may need a fume hood (or other type of hood) but can't be predicted now

would be good to have a fume hood for all wet lab research rooms

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

ensure exhausted air is fire alarm safe

HVAC vents should not blow at the lab benches, this is a huge problem for microbiological work

if this is potentially a behavioral analysis room, sound and vibration will need to be limited.

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

gas and vacuum in one of these rooms, but not all

sinks in many of these rooms, but not all

is a safety shower necessary in a small room that will likely act as an auxiliary room to a larger research lab space?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☑ prefer no natural light

COMMENTS

the more outlets the better

some backup power outlets

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

small wall mounted white board

flat panel display in some rooms but not all

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS: research labs in general need open space for refrigerators/freezers, other large pieces of equipment, potential storage of cylinders of gas, etc.

Room Function Number: 01.250.0017

Room Name	Wet Bench Research - Flex Room
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	55.11	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbyp	Height:	0	Occupant	6
Revit Level	LEVEL 3	Perimeter:	31.67	Revit Model	UWEC-HOK-AR
		Feasibility NSF	57	Revit Sync Date	2021-04-07
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory
				Science	BIO-4 - Biology (general)
				Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

function and layout will depend on which research lab its associated with and how the PI's wish to use it. Assuming this is associated with a cell/molecular lab and isnt being used for a highly "specialized" use.

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

if these doors have vision panels there needs to be a way to block out the light and a way to indicate occupancy

Room Function Number: 01.250.0017

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☑
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

fixed casework is difficult to predict at this point. would be good to have at least a little cabinetry/shelves/counters, but be careful about filling too much of the footprint with fixed items that will need to be torn out for space or equipment in the future. Focusing on movable casework would be a good idea. one lockable cabinet/drawer per lab in case of controlled substances

CASEWORK MATERIAL

Metal	☑
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☑
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 0)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☑ (Qty: 0)
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

one of these rooms may need a fume hood (or other type of hood) but can't be predicted now

would be good to have a fume hood for all wet lab research rooms

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

ensure exhausted air is fire alarm safe

HVAC vents should not blow at the lab benches, this is a huge problem for microbiological work

if this is potentially a behavioral analysis room, sound and vibration will need to be limited.

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

gas and vacuum in one of these rooms, but not all

sinks in many of these rooms, but not all

is a safety shower necessary in a small room that will likely act as an auxiliary room to a larger research lab space?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☑ prefer no natural light

COMMENTS

the more outlets the better

some backup power outlets

Room Function Number: 01.250.0017

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

small wall mounted white board

flat panel display in some rooms but not all

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS: research labs in general need open space for refrigerators/freezers, other large pieces of equipment, potential storage of cylinders of gas, etc.

Room Function Number: 01.250.0018

Room Name	Wet Bench Research - Flex Room
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	58.50	From Model Phase	New Construction
IFCID	08FLbL28D2ZPVIVJVyByel	Height:	0	Occupant	6
Revit Level	LEVEL 4	Perimeter:	31	Revit Model	UWEC-HOK-AR
		Feasibility NSF	57	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory
				Science	BIO-4 - Biology (general)
				Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

function and layout will depend on which research lab its associated with and how the PI's wish to use it. Assuming this is associated with a cell/molecular lab and isnt being used for a highly "specialized" use.

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

if these doors have vision panels there needs to be a way to block out the light and a way to indicate occupancy

Room Function Number: 01.250.0018

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☑
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

fixed casework is difficult to predict at this point. would be good to have at least a little cabinetry/shelves/counters, but be careful about filling too much of the footprint with fixed items that will need to be torn out for space or equipment in the future. Focusing on movable casework would be a good idea. one lockable cabinet/drawer per lab in case of controlled substances

CASEWORK MATERIAL

Metal	☑
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☑
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 0)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☑ (Qty: 0)
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

one of these rooms may need a fume hood (or other type of hood) but can't be predicted now

would be good to have a fume hood for all wet lab research rooms

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

ensure exhausted air is fire alarm safe

HVAC vents should not blow at the lab benches, this is a huge problem for microbiological work

if this is potentially a behavioral analysis room, sound and vibration will need to be limited.

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

gas and vacuum in one of these rooms, but not all

sinks in many of these rooms, but not all

is a safety shower necessary in a small room that will likely act as an auxiliary room to a larger research lab space?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☑ prefer no natural light

COMMENTS

the more outlets the better

some backup power outlets

Room Function Number: 01.250.0018

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

small wall mounted white board

flat panel display in some rooms but not all

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS: research labs in general need open space for refrigerators/freezers, other large pieces of equipment, potential storage of cylinders of gas, etc.

Room Function Number: 01.250.0019

Room Name	Wet Bench Research - Flex Room
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	58.50	From Model Phase	New Construction
IFCID	08FLbL28D2ZPVIVJVyByei	Height:	0	Occupant	6
Revit Level	LEVEL 4	Perimeter:	31	Revit Model	UWEC-HOK-AR
		Feasibility NSF	57	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory
				Science	BIO-4 - Biology (general)
				Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

function and layout will depend on which research lab its associated with and how the PI's wish to use it. Assuming this is associated with a cell/molecular lab and isnt being used for a highly "specialized" use.

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

if these doors have vision panels there needs to be a way to block out the light and a way to indicate occupancy

Room Function Number: 01.250.0019

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☑
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

fixed casework is difficult to predict at this point. would be good to have at least a little cabinetry/shelves/counters, but be careful about filling too much of the footprint with fixed items that will need to be torn out for space or equipment in the future. Focusing on movable casework would be a good idea. one lockable cabinet/drawer per lab in case of controlled substances

CASEWORK MATERIAL

Metal	☑
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☑
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 0)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☑ (Qty: 0)
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

one of these rooms may need a fume hood (or other type of hood) but can't be predicted now

would be good to have a fume hood for all wet lab research rooms

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

ensure exhausted air is fire alarm safe

HVAC vents should not blow at the lab benches, this is a huge problem for microbiological work

if this is potentially a behavioral analysis room, sound and vibration will need to be limited.

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

gas and vacuum in one of these rooms, but not all

sinks in many of these rooms, but not all

is a safety shower necessary in a small room that will likely act as an auxiliary room to a larger research lab space?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☑ prefer no natural light

COMMENTS

the more outlets the better

some backup power outlets

Room Function Number: 01.250.0019

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

small wall mounted white board

flat panel display in some rooms but not all

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS: research labs in general need open space for refrigerators/freezers, other large pieces of equipment, potential storage of cylinders of gas, etc.

Room Function Number: 01.250.0020

Room Name	Wet Bench Research - Flex Room
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	08FLbL28D2ZPVIVJVyByeH
Revit Level	LEVEL 4

Areas

Programmed	57.00
Actual	58.50
Height:	0
Perimeter:	31
Feasibility NSF	57

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	6
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-4 - Biology (general)
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

function and layout will depend on which research lab its associated with and how the PI's wish to use it. Assuming this is associated with a cell/molecular lab and isnt being used for a highly "specialized" use.

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

if these doors have vision panels there needs to be a way to block out the light and a way to indicate occupancy

Room Function Number: 01.250.0020

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☑
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

fixed casework is difficult to predict at this point. would be good to have at least a little cabinetry/shelves/counters, but be careful about filling too much of the footprint with fixed items that will need to be torn out for space or equipment in the future. Focusing on movable casework would be a good idea. one lockable cabinet/drawer per lab in case of controlled substances

CASEWORK MATERIAL

Metal	☑
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☑
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 0)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☑ (Qty: 0)
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

one of these rooms may need a fume hood (or other type of hood) but can't be predicted now

would be good to have a fume hood for all wet lab research rooms

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

ensure exhausted air is fire alarm safe

HVAC vents should not blow at the lab benches, this is a huge problem for microbiological work

if this is potentially a behavioral analysis room, sound and vibration will need to be limited.

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

gas and vacuum in one of these rooms, but not all

sinks in many of these rooms, but not all

is a safety shower necessary in a small room that will likely act as an auxiliary room to a larger research lab space?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☑ prefer no natural light

COMMENTS

the more outlets the better

some backup power outlets

Room Function Number: 01.250.0020

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

small wall mounted white board

flat panel display in some rooms but not all

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS: research labs in general need open space for refrigerators/freezers, other large pieces of equipment, potential storage of cylinders of gas, etc.

Room Function Number: 01.250.0021

Room Name	Wet Bench Research - Open Lab
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	2n8vGMyaP8fwASZkHsKbyS
Revit Level	LEVEL 3

Areas

Programmed	456.00
Actual	441.00
Height:	0
Perimeter:	91
Feasibility NSF	443

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	6
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-4 - Biology (general)
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION

- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING

- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE

- [x] Applied
- [ ] Integral

Material:

CEILINGS

- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

whatever materials are typical for a cell/ molecular lab are appropriate for this room

Room Function Number: 01.250.0021

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

lots of storage, cabinets and drawers, and lots of counter space for benchtop equipment is important. the perimeter of the room would probably be best supplied with fixed casework but the center can be left open for movable casework. refer to what we've done in the molecular research suite in Phillips

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

at least one fume hood should be available in adjoining room (prep/equipment/support room)

at least one of the wet bench research labs designated for cell/molecule work should be in close vicinity to the research tissue culture facility

will need storage for hazardous chemicals (flammable cabinets?) (vented to outside?)

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

if this room is being used for cell/molecular work then lots of counter space for microfuges, thermocyclers, water baths, etc. I see that the prototype diagrams suggest one free wall where floor occupying equipment (refrigerators, incubators, etc.) could be placed - this is a good idea however most of these labs will require additional such free floor space which can be made available in adjoining equipment rooms.

Room Function Number: 01.250.0021

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (2)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

sinks in many of these rooms, but not all

two sinks sufficient for a cell/molecular focused lab

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

the more outlets the better

if casework benches are movable then electrical service should drop from the ceiling

if one of these rooms is going to house a -80 freezer, backup generator power will be required. I expect those will be housed in a shared equipment rooms. It might be nice to have a couple plugs in each room that are on backup power so that if a faculty member has a piece of equipment that could use it they are available.

lighting above the work benches, not the aisles.

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

display not necessary, but if there is a microscope in the room might be nice to link the camera up to a display

lots of whiteboard space

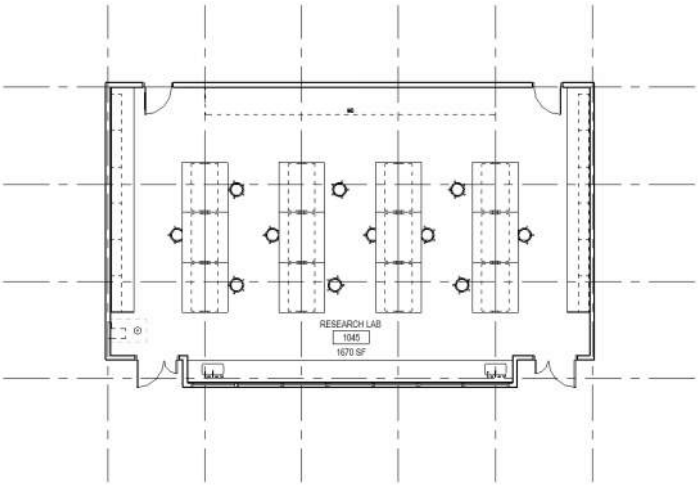
GENERAL ROOM REMARKS

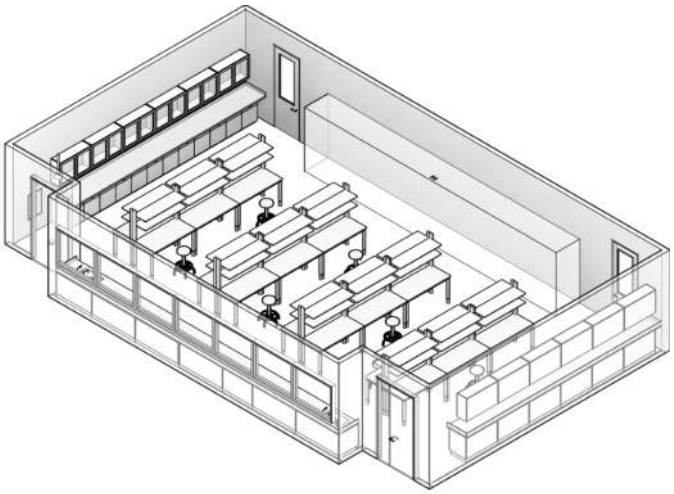
GENERAL ROOM REMARKS

assuming the room is going to be used for cell/molecular focused work. i think its likely most of these "wet-bench" research labs will be used in that way.

one of the difficulties in making comments about these labs right now (both teaching and research) is that we don't yet know how they will be associated with adjoining prep/equipment/support lab spaces. Where equipment is distributed will be totally depending on what the final floor plans look like (is a refrigerator going to have to go in the main research lab or if there space in an adjacent equipment room?) Where are the fume hoods located? Where are the autoclaves? How about microscopes? Doing my best to give comments knowing we don't yet have this information.

Room Function Number: 01.250.0021





Room Function Number: 01.250.0022

Room Name	Wet Bench Research - Open Lab
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	2n8vGMyaP8fwASZkHsKbyR
Revit Level	LEVEL 3

Areas

Programmed	456.00
Actual	443.62
Height:	0
Perimeter:	87.83
Feasibility NSF	443

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	6
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-4 - Biology (general)
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

whatever materials are typical for a cell/ molecular lab are appropriate for this room

Room Function Number: 01.250.0022

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

lots of storage, cabinets and drawers, and lots of counter space for benchtop equipment is important. the perimeter of the room would probably be best supplied with fixed casework but the center can be left open for movable casework. refer to what we've done in the molecular research suite in Phillips

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

at least one fume hood should be available in adjoining room (prep/equipment/support room)

at least one of the wet bench research labs designated for cell/molecule work should be in close vicinity to the research tissue culture facility

will need storage for hazardous chemicals (flammable cabinets?) (vented to outside?)

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

if this room is being used for cell/molecular work then lots of counter space for microfuges, thermocyclers, water baths, etc. I see that the prototype diagrams suggest one free wall where floor occupying equipment (refrigerators, incubators, etc.) could be placed - this is a good idea however most of these labs will require additional such free floor space which can be made available in adjoining equipment rooms.

Room Function Number: 01.250.0022

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (2)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

sinks in many of these rooms, but not all

two sinks sufficient for a cell/molecular focused lab

Room Function Number: 01.250.0022

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

the more outlets the better

if casework benches are movable then electrical service should drop from the ceiling

if one of these rooms is going to house a -80 freezer, backup generator power will be required. I expect those will be housed in a shared equipment rooms. It might be nice to have a couple plugs in each room that are on backup power so that if a faculty member has a piece of equipment that could use it they are available.

lighting above the work benches, not the aisles.

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

display not necessary, but if there is a microscope in the room might be nice to link the camera up to a display

lots of whiteboard space

GENERAL ROOM REMARKS

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assuming the room is going to be used for cell/molecular focused work. i think its likely most of these "wet-bench" research labs will be used in that way.

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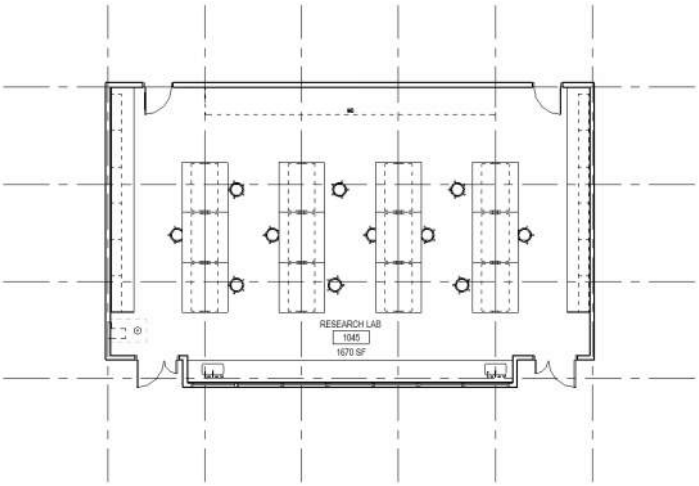
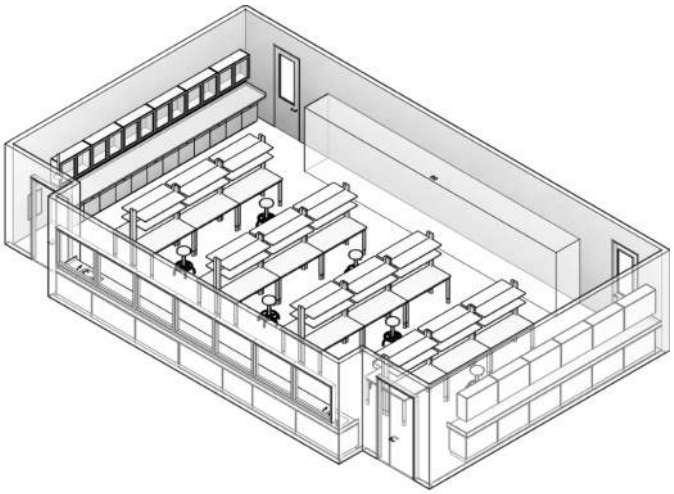
Room Function Number: 01.250.0022





Room Function Number: 01.250.0023

Room Name	Wet Bench Research - Open Lab
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
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Revit Level	LEVEL 3

Areas

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Occupant	6
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Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-4 - Biology (general)
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

whatever materials are typical for a cell/ molecular lab are appropriate for this room

Room Function Number: 01.250.0023

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

lots of storage, cabinets and drawers, and lots of counter space for benchtop equipment is important. the perimeter of the room would probably be best supplied with fixed casework but the center can be left open for movable casework. refer to what we've done in the molecular research suite in Phillips

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

at least one fume hood should be available in adjoining room (prep/equipment/support room)

at least one of the wet bench research labs designated for cell/molecule work should be in close vicinity to the research tissue culture facility

will need storage for hazardous chemicals (flammable cabinets?) (vented to outside?)

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

if this room is being used for cell/molecular work then lots of counter space for microfuges, thermocyclers, water baths, etc. I see that the prototype diagrams suggest one free wall where floor occupying equipment (refrigerators, incubators, etc.) could be placed - this is a good idea however most of these labs will require additional such free floor space which can be made available in adjoining equipment rooms.

Room Function Number: 01.250.0023

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (2)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

sinks in many of these rooms, but not all

two sinks sufficient for a cell/molecular focused lab

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

the more outlets the better

if casework benches are movable then electrical service should drop from the ceiling

if one of these rooms is going to house a -80 freezer, backup generator power will be required. I expect those will be housed in a shared equipment rooms. It might be nice to have a couple plugs in each room that are on backup power so that if a faculty member has a piece of equipment that could use it they are available.

lighting above the work benches, not the aisles.

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

display not necessary, but if there is a microscope in the room might be nice to link the camera up to a display

lots of whiteboard space

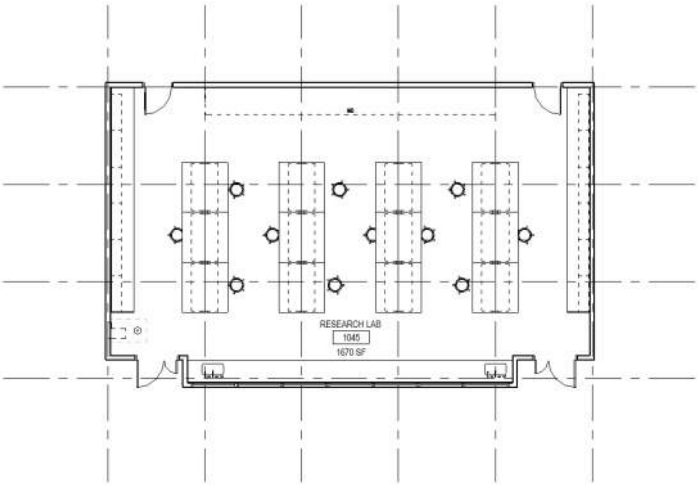
GENERAL ROOM REMARKS

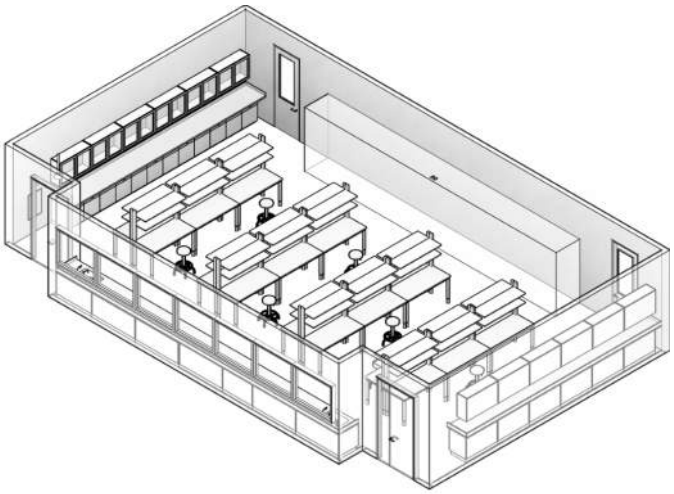
GENERAL ROOM REMARKS

assuming the room is going to be used for cell/molecular focused work. i think its likely most of these "wet-bench" research labs will be used in that way.

one of the difficulties in making comments about these labs right now (both teaching and research) is that we don't yet know how they will be associated with adjoining prep/equipment/support lab spaces. Where equipment is distributed will be totally depending on what the final floor plans look like (is a refrigerator going to have to go in the main research lab or if there space in an adjacent equipment room?) Where are the fume hoods located? Where are the autoclaves? How about microscopes? Doing my best to give comments knowing we don't yet have this information.

Room Function Number: 01.250.0023





Room Function Number: 01.250.0024

Room Name	Wet Bench Research - Open Lab
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	446.25	From Model Phase	New Construction
IFCID	08FLbL28D2ZPVIVJVyBzK2	Height:	0	Occupant	6
Revit Level	LEVEL 4	Perimeter:	91.33	Revit Model	UWEC-HOK-AR
		Feasibility NSF	443	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory
				Science	BIO-4 - Biology (general)
				Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
whatever materials are typical for a cell/ molecular lab are appropriate for this room

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

lots of storage, cabinets and drawers, and lots of counter space for benchtop equipment is important. the perimeter of the room would probably be best supplied with fixed casework but the center can be left open for movable casework. refer to what we've done in the molecular research suite in Phillips

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

at least one fume hood should be available in adjoining room (prep/equipment/support room)

at least one of the wet bench research labs designated for cell/molecule work should be in close vicinity to the research tissue culture facility

will need storage for hazardous chemicals (flammable cabinets?) (vented to outside?)

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

if this room is being used for cell/molecular work then lots of counter space for microfuges, thermocyclers, water baths, etc. I see that the prototype diagrams suggest one free wall where floor occupying equipment (refrigerators, incubators, etc.) could be placed - this is a good idea however most of these labs will require additional such free floor space which can be made available in adjoining equipment rooms.

Room Function Number: 01.250.0024

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (2)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

sinks in many of these rooms, but not all

two sinks sufficient for a cell/molecular focused lab

Room Function Number: 01.250.0024

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

the more outlets the better

if casework benches are movable then electrical service should drop from the ceiling

if one of these rooms is going to house a -80 freezer, backup generator power will be required. I expect those will be housed in a shared equipment rooms. It might be nice to have a couple plugs in each room that are on backup power so that if a faculty member has a piece of equipment that could use it they are available.

lighting above the work benches, not the aisles.

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

display not necessary, but if there is a microscope in the room might be nice to link the camera up to a display

lots of whiteboard space

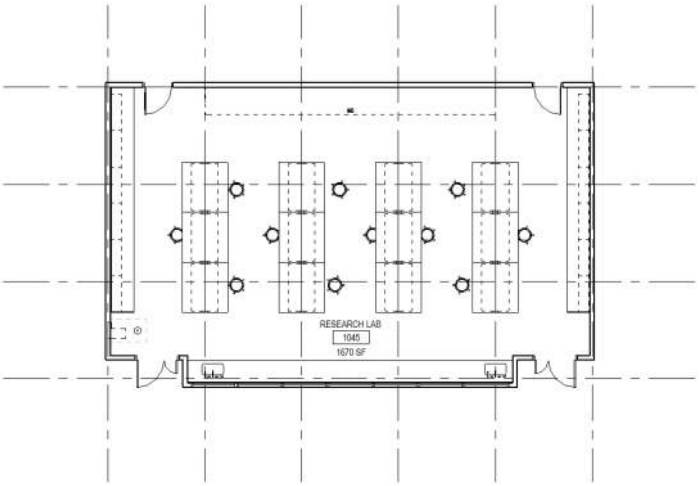
GENERAL ROOM REMARKS

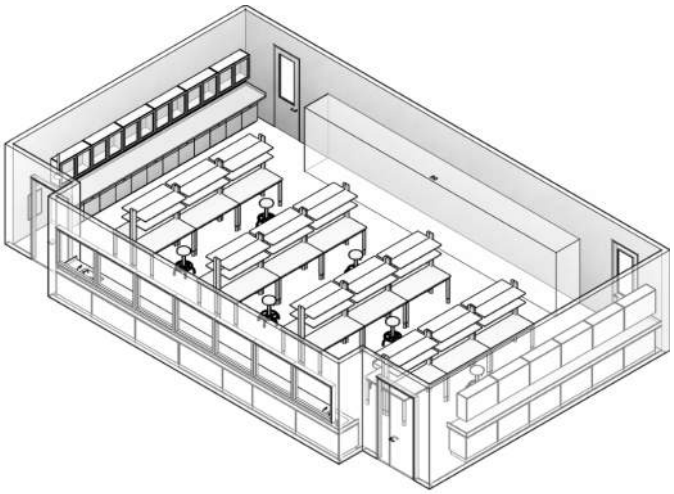
GENERAL ROOM REMARKS

assuming the room is going to be used for cell/molecular focused work. i think its likely most of these "wet-bench" research labs will be used in that way.

one of the difficulties in making comments about these labs right now (both teaching and research) is that we don't yet know how they will be associated with adjoining prep/equipment/support lab spaces. Where equipment is distributed will be totally depending on what the final floor plans look like (is a refrigerator going to have to go in the main research lab or if there space in an adjacent equipment room?) Where are the fume hoods located? Where are the autoclaves? How about microscopes? Doing my best to give comments knowing we don't yet have this information.

Room Function Number: 01.250.0024





Room Function Number: 01.250.0025

Room Name	Wet Bench Research - Open Lab
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	08FLbL28D2ZPVIVJVyBzK7
Revit Level	LEVEL 4

Areas

Programmed	456.00
Actual	441.00
Height:	0
Perimeter:	91
Feasibility NSF	443

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	6
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-4 - Biology (general)
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION

- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING

- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE

- [x] Applied
- [ ] Integral

Material:

CEILINGS

- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

whatever materials are typical for a cell/ molecular lab are appropriate for this room

Room Function Number: 01.250.0025

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

lots of storage, cabinets and drawers, and lots of counter space for benchtop equipment is important. the perimeter of the room would probably be best supplied with fixed casework but the center can be left open for movable casework. refer to what we've done in the molecular research suite in Phillips

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

at least one fume hood should be available in adjoining room (prep/equipment/support room)

at least one of the wet bench research labs designated for cell/molecule work should be in close vicinity to the research tissue culture facility

will need storage for hazardous chemicals (flammable cabinets?) (vented to outside?)

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

if this room is being used for cell/molecular work then lots of counter space for microfuges, thermocyclers, water baths, etc. I see that the prototype diagrams suggest one free wall where floor occupying equipment (refrigerators, incubators, etc.) could be placed - this is a good idea however most of these labs will require additional such free floor space which can be made available in adjoining equipment rooms.

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (2)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

sinks in many of these rooms, but not all

two sinks sufficient for a cell/molecular focused lab

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

the more outlets the better

if casework benches are movable then electrical service should drop from the ceiling

if one of these rooms is going to house a -80 freezer, backup generator power will be required. I expect those will be housed in a shared equipment rooms. It might be nice to have a couple plugs in each room that are on backup power so that if a faculty member has a piece of equipment that could use it they are available.

lighting above the work benches, not the aisles.

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

display not necessary, but if there is a microscope in the room might be nice to link the camera up to a display

lots of whiteboard space

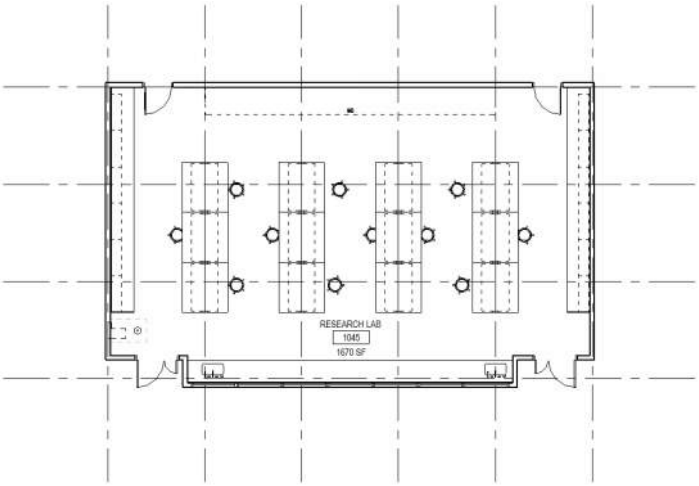
GENERAL ROOM REMARKS

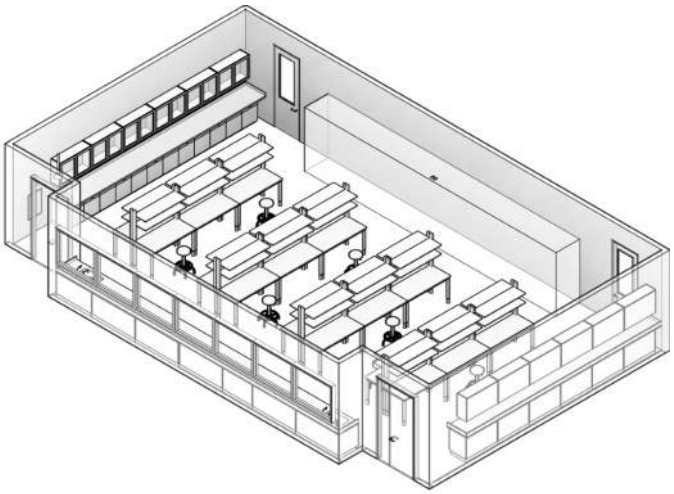
GENERAL ROOM REMARKS

assuming the room is going to be used for cell/molecular focused work. i think its likely most of these "wet-bench" research labs will be used in that way.

one of the difficulties in making comments about these labs right now (both teaching and research) is that we don't yet know how they will be associated with adjoining prep/equipment/support lab spaces. Where equipment is distributed will be totally depending on what the final floor plans look like (is a refrigerator going to have to go in the main research lab or if there space in an adjacent equipment room?) Where are the fume hoods located? Where are the autoclaves? How about microscopes? Doing my best to give comments knowing we don't yet have this information.

Room Function Number: 01.250.0025





Room Function Number: 01.250.0026

Room Name	Wet Bench Research - Open Lab
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	08FLbL28D2ZPVIVJVyBzK4
Revit Level	LEVEL 4

Areas

Programmed	456.00
Actual	441.00
Height:	0
Perimeter:	91
Feasibility NSF	443

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	6
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-4 - Biology (general)
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION

- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING

- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE

- [x] Applied
- [ ] Integral

Material:

CEILINGS

- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

whatever materials are typical for a cell/ molecular lab are appropriate for this room

Room Function Number: 01.250.0026

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

lots of storage, cabinets and drawers, and lots of counter space for benchtop equipment is important. the perimeter of the room would probably be best supplied with fixed casework but the center can be left open for movable casework. refer to what we've done in the molecular research suite in Phillips

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

at least one fume hood should be available in adjoining room (prep/equipment/support room)

at least one of the wet bench research labs designated for cell/molecule work should be in close vicinity to the research tissue culture facility

will need storage for hazardous chemicals (flammable cabinets?) (vented to outside?)

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

if this room is being used for cell/molecular work then lots of counter space for microfuges, thermocyclers, water baths, etc. I see that the prototype diagrams suggest one free wall where floor occupying equipment (refrigerators, incubators, etc.) could be placed - this is a good idea however most of these labs will require additional such free floor space which can be made available in adjoining equipment rooms.

Room Function Number: 01.250.0026

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (2)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

sinks in many of these rooms, but not all

two sinks sufficient for a cell/molecular focused lab

Room Function Number: 01.250.0026

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

the more outlets the better

if casework benches are movable then electrical service should drop from the ceiling

if one of these rooms is going to house a -80 freezer, backup generator power will be required. I expect those will be housed in a shared equipment rooms. It might be nice to have a couple plugs in each room that are on backup power so that if a faculty member has a piece of equipment that could use it they are available.

lighting above the work benches, not the aisles.

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

display not necessary, but if there is a microscope in the room might be nice to link the camera up to a display

lots of whiteboard space

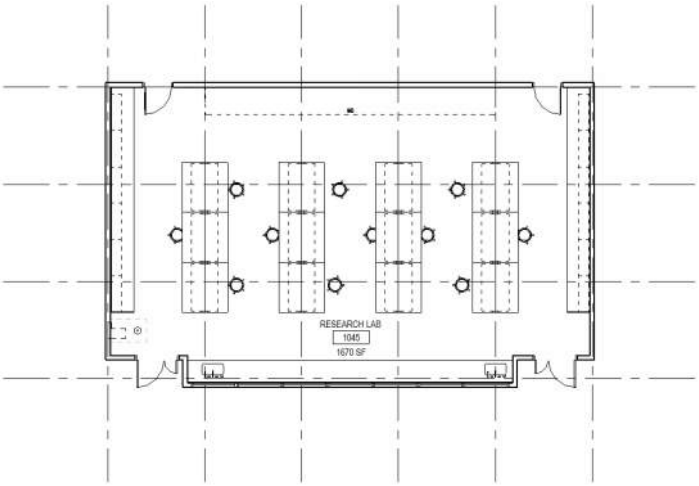
GENERAL ROOM REMARKS

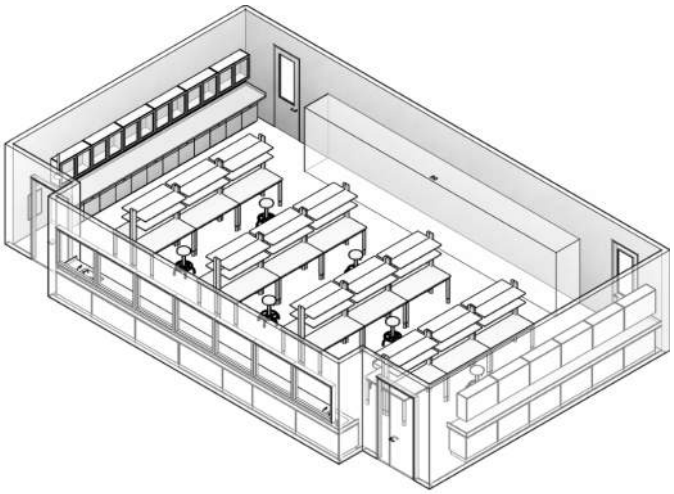
GENERAL ROOM REMARKS

assuming the room is going to be used for cell/molecular focused work. i think its likely most of these "wet-bench" research labs will be used in that way.

one of the difficulties in making comments about these labs right now (both teaching and research) is that we don't yet know how they will be associated with adjoining prep/equipment/support lab spaces. Where equipment is distributed will be totally depending on what the final floor plans look like (is a refrigerator going to have to go in the main research lab or if there space in an adjacent equipment room?) Where are the fume hoods located? Where are the autoclaves? How about microscopes? Doing my best to give comments knowing we don't yet have this information.

Room Function Number: 01.250.0026





Room Function Number: 01.250.0027

Room Name	Microbiology Wet Bench Research - Flex Room
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	Unique
Last modified	Thelen, Jessica, 3/12/2021 2:08 PM

Categorization

Room Number	
User Room Number	
IFCID	2n8vGMyaP8fwASZkHsKbyF
Revit Level	LEVEL 3

Areas

Programmed	57.00
Actual	82.67
Height:	0
Perimeter:	36.83
Feasibility NSF	57

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-07
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-16 - Microbiology
Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
just a regular room with bench tops along the walls for storage

CASEWORK

CASEWORK TYPE

- Fixed Casework ☐
- Movable Casework ☐
- Wall Cabinets ☐
- Wall Shelves ☐
- Lockable Cabinets ☐
- Other: ☐

BENCHTOP MATERIAL

- Epoxy ☐
- Wood ☐
- Stainless Steel ☐
- Plastic Laminate ☐
- Phenolic ☐
- Other: ☐

COMMENTS

non-porous surfaces

CASEWORK MATERIAL

- Metal ☐
- Wood ☐
- Stainless Steel ☐
- Other: ☐

SHELVING MATERIAL

- Metal ☐
- Wood ☐
- Stainless Steel ☐
- Glass ☐
- Other: ☐

EXHAUST DEVICES

- Benchtop Fume Hoods: ☐
- Walk-in Fume Hoods: ☐
- Radioisotope Hoods: ☐
- Perchloric Hoods: ☐
- Bio Safety Cabs: ☐
- Vert Lam Flow Hoods: ☐
- Hori Lam Flow Hoods: ☐
- Polypropylene Hoods: ☐
- Canopy Hoods: ☐
- ADA Hoods: ☐
- Point Exhaust: ☐
- Other: ☐

COMMENTS

EQUIPMENT

- Item 1 ☑ gel documentation equipment (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: perhaps additional (shared)
- Item 2 ☑ gel electrophorosis equipment (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: key here is shared
- Item 3 ☑ PCR equipment (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
- Item 4 ☐
- Item 5 ☐
- Item 6 ☐
- Item 7 ☐
- Item 8 ☐
- Item 9 ☐
- Item 10 ☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

electrical outlets

Room Function Number: 01.250.0027

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.250.0028

Room Name	Microbiology Wet Bench Research - Flex Room
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	Unique
Last modified	Niewoehner, Daniel, 2/11/2021 1:21 PM

Categorization

Room Number	
User Room Number	
IFCID	2n8vGMyaP8fwASZkHsKbyA
Revit Level	LEVEL 3

Areas

Programmed	57.00
Actual	82.67
Height:	0
Perimeter:	36.83
Feasibility NSF	57

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-07
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-16 - Microbiology
Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 01.250.0028

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.250.0028

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.250.0029

Room Name	Ecology Research - Flex Room
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	3bVYY0S1v0JhiQgvwMH7uM
Revit Level	LEVEL 4

Areas

Programmed	57.00
Actual	58.50
Height:	0
Perimeter:	31
Feasibility NSF	57

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	5
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-12 - Ecology
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

do we need rubber flooring?

Room Function Number: 01.250.0029

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

would like shelving above bench tops - see molecular suite design

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 0)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	refrigerator/freezer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐			
Item 3	☐			
Item 4	☐			
Item 5	☐			
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

Room Function Number: 01.250.0029

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.250.0029

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

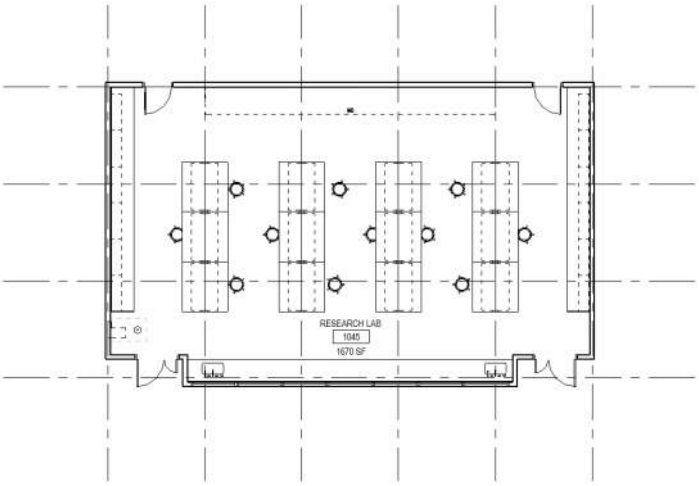
AUDIO VISUAL

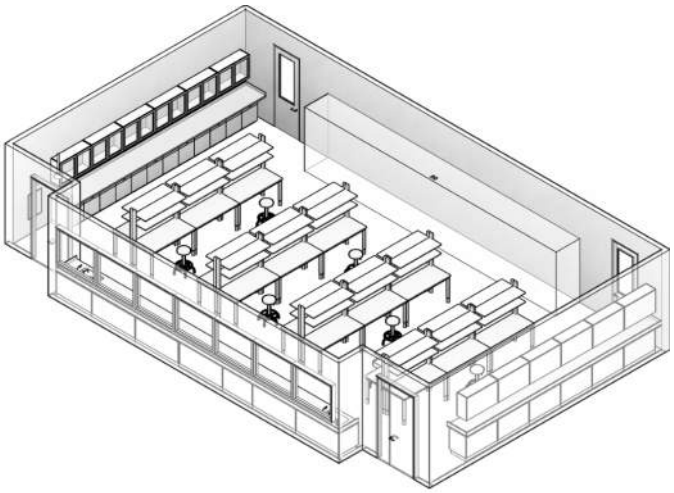
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.250.0030

Room Name	Ecology Research - Flex Room
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	3bVYY0S1v0JhiQgvwMH7uQ
Revit Level	LEVEL 4

Areas

Programmed	57.00
Actual	58.50
Height:	0
Perimeter:	31
Feasibility NSF	57

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	5
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-12 - Ecology
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

do we need rubber flooring?

Room Function Number: 01.250.0030

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

would like shelving above bench tops - see molecular suite design

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 0)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	refrigerator/freezer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐			
Item 3	☐			
Item 4	☐			
Item 5	☐			
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.250.0030

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

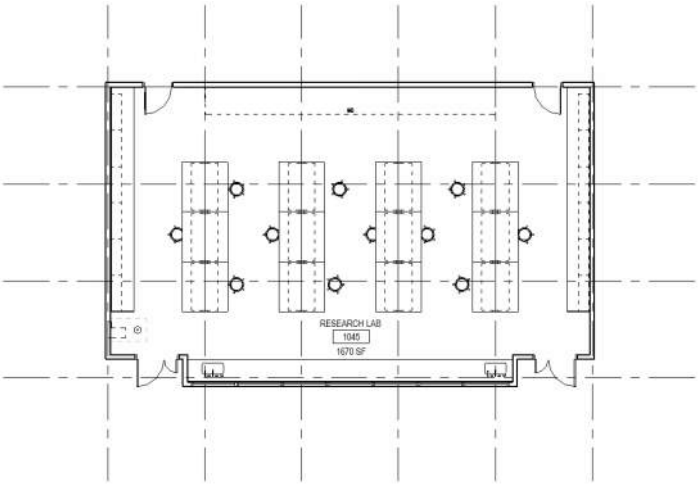
AUDIO VISUAL

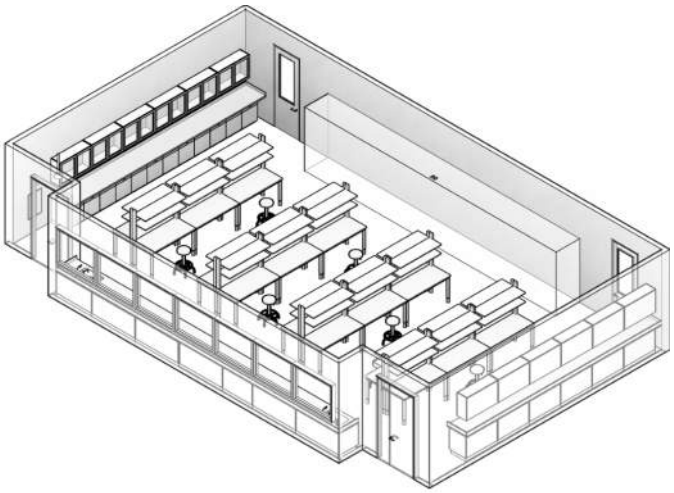
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.250.0031

Room Name	Ecology Research - Flex Room
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	3bVYY0S1v0JhiQgvwMH7uU
Revit Level	LEVEL 4

Areas

Programmed	57.00
Actual	58.50
Height:	0
Perimeter:	31
Feasibility NSF	57

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	5
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-12 - Ecology
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

do we need rubber flooring?

Room Function Number: 01.250.0031

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

would like shelving above bench tops - see molecular suite design

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 0)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	refrigerator/freezer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐			
Item 3	☐			
Item 4	☐			
Item 5	☐			
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.250.0031

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

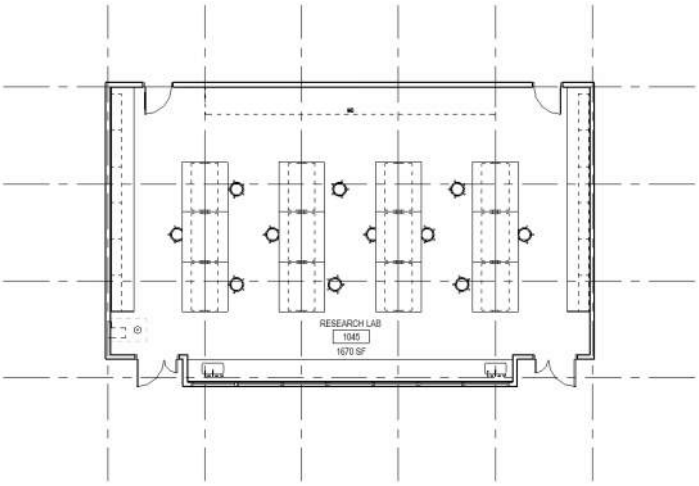
AUDIO VISUAL

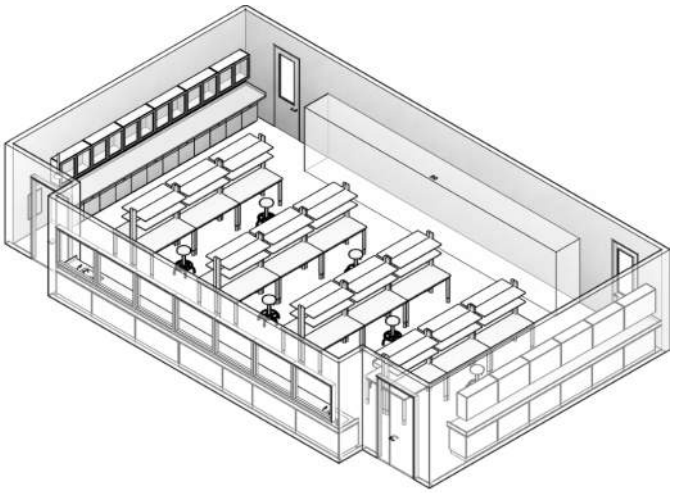
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.250.0032

Room Name	Ecology Research - Flex Room
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	3bVYY0S1v0JhiQgvwMH7xY
Revit Level	LEVEL 4

Areas

Programmed	57.00
Actual	58.50
Height:	0
Perimeter:	31
Feasibility NSF	57

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	5
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-12 - Ecology
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

do we need rubber flooring?

Room Function Number: 01.250.0032

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

would like shelving above bench tops - see molecular suite design

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 0)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	refrigerator/freezer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐			
Item 3	☐			
Item 4	☐			
Item 5	☐			
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.250.0032

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

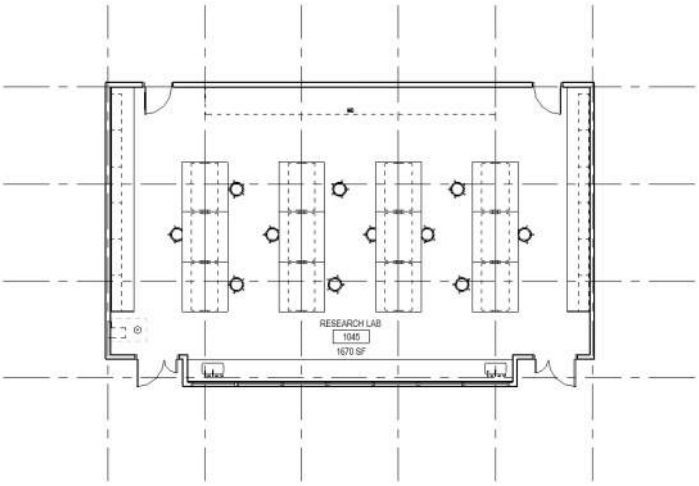
AUDIO VISUAL

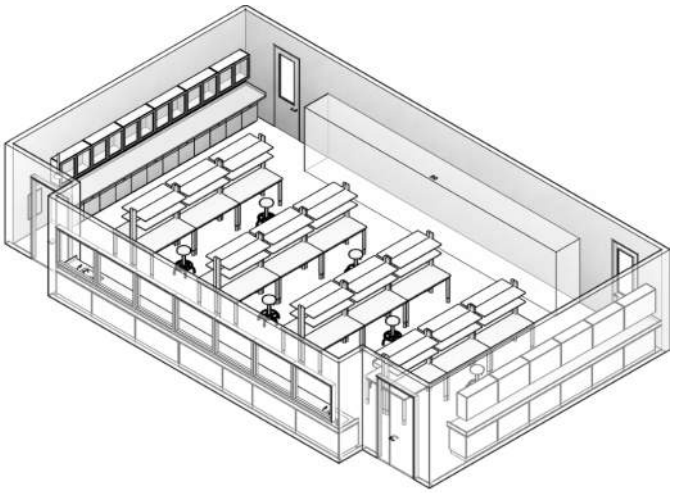
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.250.0033

Room Name	Ecology Research - Flex Room
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	3bVYY0S1v0JhiQgvwMH7xc
Revit Level	LEVEL 4

Areas

Programmed	57.00
Actual	58.50
Height:	0
Perimeter:	31
Feasibility NSF	57

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	5
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-12 - Ecology
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

do we need rubber flooring?

Room Function Number: 01.250.0033

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

would like shelving above bench tops - see molecular suite design

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 0)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	refrigerator/freezer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐			
Item 3	☐			
Item 4	☐			
Item 5	☐			
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

Room Function Number: 01.250.0033

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.250.0033

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

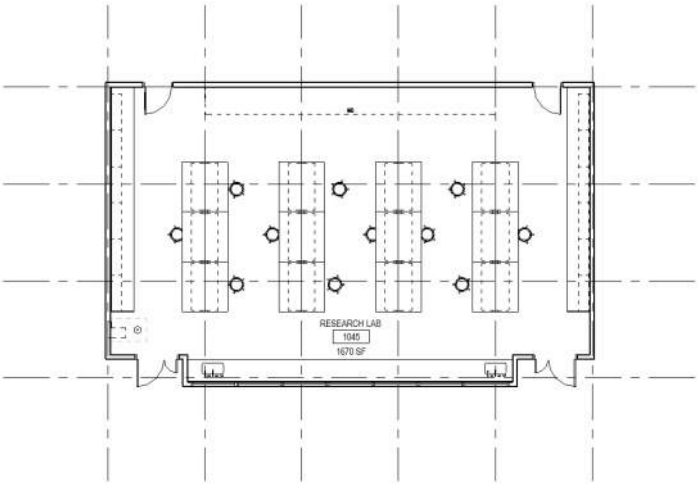
AUDIO VISUAL

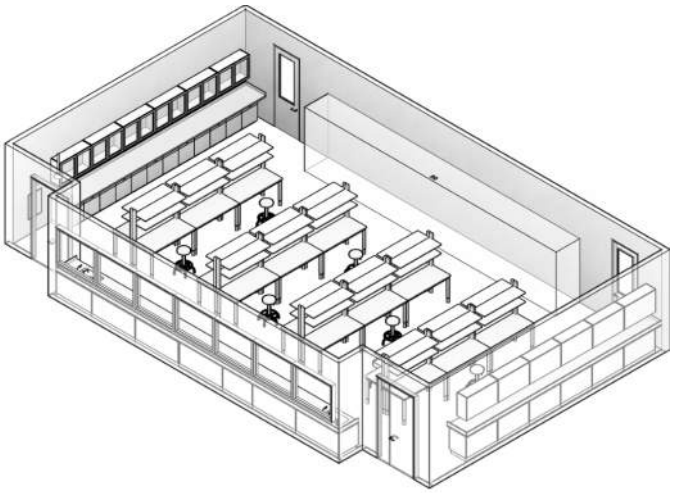
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.250.0034

Room Name	Aquatics Research - Flex Room
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	0.00	From Model Phase	New Construction
IFCID	3bVYY0S1v0JhiQgvwMH7xg	Height:	0	Occupant	1
Revit Level	LEVEL 4	Perimeter:	0	Revit Model	UWEC-HOK-AR
		Feasibility NSF	57	Revit Sync Date	2021-04-05
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory
				Science	BIO-27 - Animal Research
				Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☑
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☑
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☑
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☑ Rubber

FLOOR BASE
- Applied ☑
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
do we need rubber flooring?

Room Function Number: 01.250.0034

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

would like shelving above bench tops - see molecular suite design

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 0)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	refrigerator/freezer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐			
Item 3	☐			
Item 4	☐			
Item 5	☐			
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.250.0034

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

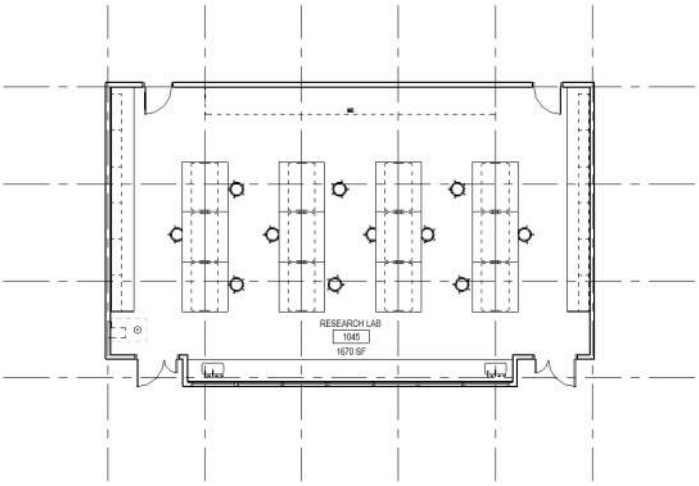
AUDIO VISUAL

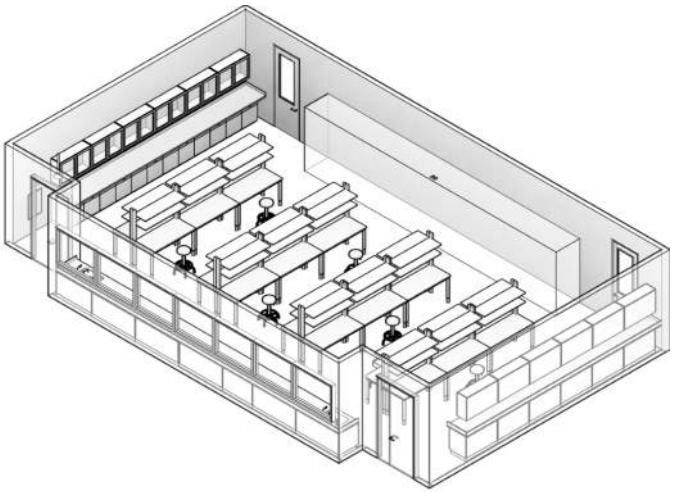
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 01.250.0035

Room Name	Wet Bench Research New Hire - Open Lab
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	08FLbL28D2ZPVIVJVyBzK9
Revit Level	LEVEL 4

Areas

Programmed	456.00
Actual	446.25
Height:	0
Perimeter:	91.33

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	6
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-4 - Biology (general)
Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
whatever materials are typical for a cell/ molecular lab are appropriate for this room

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

lots of storage, cabinets and drawers, and lots of counter space for benchtop equipment is important. the perimeter of the room would probably be best supplied with fixed casework but the center can be left open for movable casework. refer to what we've done in the molecular research suite in Phillips

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

at least one fume hood should be available in adjoining room (prep/equipment/support room)

at least one of the wet bench research labs designated for cell/molecule work should be in close vicinity to the research tissue culture facility

will need storage for hazardous chemicals (flammable cabinets?) (vented to outside?)

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

if this room is being used for cell/molecular work then lots of counter space for microfuges, thermocyclers, water baths, etc. I see that the prototype diagrams suggest one free wall where floor occupying equipment (refrigerators, incubators, etc.) could be placed - this is a good idea however most of these labs will require additional such free floor space which can be made available in adjoining equipment rooms.

Room Function Number: 01.250.0035

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (2)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

sinks in many of these rooms, but not all

two sinks sufficient for a cell/molecular focused lab

Room Function Number: 01.250.0035

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

the more outlets the better

if casework benches are movable then electrical service should drop from the ceiling

if one of these rooms is going to house a -80 freezer, backup generator power will be required. I expect those will be housed in a shared equipment rooms. It might be nice to have a couple plugs in each room that are on backup power so that if a faculty member has a piece of equipment that could use it they are available.

lighting above the work benches, not the aisles.

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

display not necessary, but if there is a microscope in the room might be nice to link the camera up to a display

lots of whiteboard space

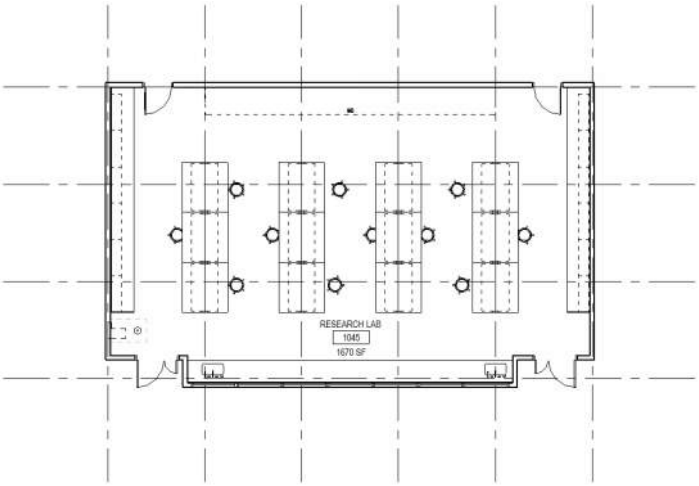
GENERAL ROOM REMARKS

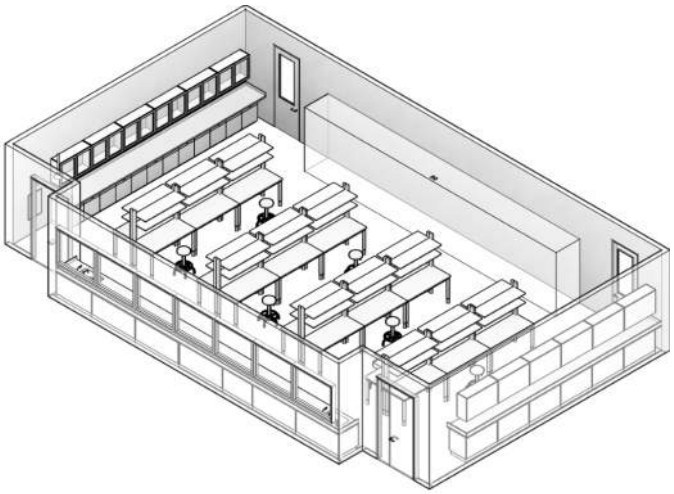
GENERAL ROOM REMARKS

assuming the room is going to be used for cell/molecular focused work. i think its likely most of these "wet-bench" research labs will be used in that way.

one of the difficulties in making comments about these labs right now (both teaching and research) is that we don't yet know how they will be associated with adjoining prep/equipment/support lab spaces. Where equipment is distributed will be totally depending on what the final floor plans look like (is a refrigerator going to have to go in the main research lab or if there space in an adjacent equipment room?) Where are the fume hoods located? Where are the autoclaves? How about microscopes? Doing my best to give comments knowing we don't yet have this information.

Room Function Number: 01.250.0035





Room Function Number: 01.250.0036

Room Name	Wet Bench Research New Hire - Open Lab
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	08FLbL28D2ZPVIVJVyBzKE
Revit Level	LEVEL 4

Areas

Programmed	456.00
Actual	441.00
Height:	0
Perimeter:	91

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	6
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-4 - Biology (general)
Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
whatever materials are typical for a cell/ molecular lab are appropriate for this room

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

lots of storage, cabinets and drawers, and lots of counter space for benchtop equipment is important. the perimeter of the room would probably be best supplied with fixed casework but the center can be left open for movable casework. refer to what we've done in the molecular research suite in Phillips

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

at least one fume hood should be available in adjoining room (prep/equipment/support room)

at least one of the wet bench research labs designated for cell/molecule work should be in close vicinity to the research tissue culture facility

will need storage for hazardous chemicals (flammable cabinets?) (vented to outside?)

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

if this room is being used for cell/molecular work then lots of counter space for microfuges, thermocyclers, water baths, etc. I see that the prototype diagrams suggest one free wall where floor occupying equipment (refrigerators, incubators, etc.) could be placed - this is a good idea however most of these labs will require additional such free floor space which can be made available in adjoining equipment rooms.

Room Function Number: 01.250.0036

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (2)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

sinks in many of these rooms, but not all

two sinks sufficient for a cell/molecular focused lab

Room Function Number: 01.250.0036

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

the more outlets the better

if casework benches are movable then electrical service should drop from the ceiling

if one of these rooms is going to house a -80 freezer, backup generator power will be required. I expect those will be housed in a shared equipment rooms. It might be nice to have a couple plugs in each room that are on backup power so that if a faculty member has a piece of equipment that could use it they are available.

lighting above the work benches, not the aisles.

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

display not necessary, but if there is a microscope in the room might be nice to link the camera up to a display

lots of whiteboard space

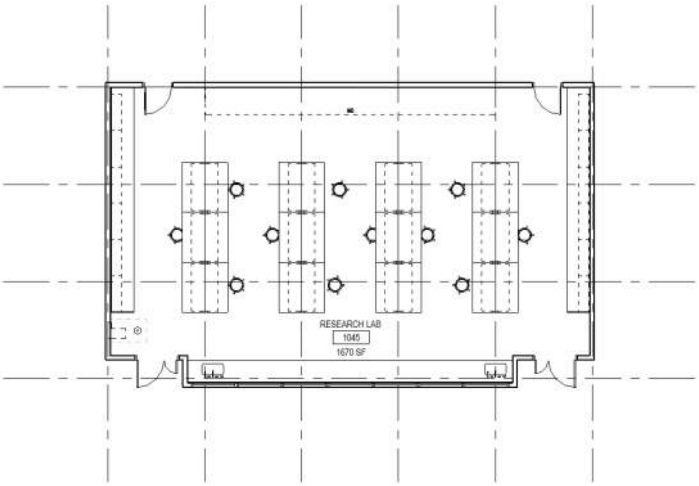
GENERAL ROOM REMARKS

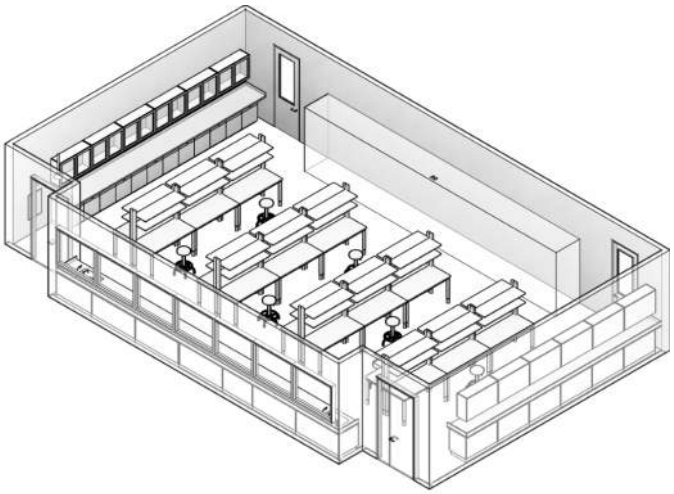
GENERAL ROOM REMARKS

assuming the room is going to be used for cell/molecular focused work. i think its likely most of these "wet-bench" research labs will be used in that way.

one of the difficulties in making comments about these labs right now (both teaching and research) is that we don't yet know how they will be associated with adjoining prep/equipment/support lab spaces. Where equipment is distributed will be totally depending on what the final floor plans look like (is a refrigerator going to have to go in the main research lab or if there space in an adjacent equipment room?) Where are the fume hoods located? Where are the autoclaves? How about microscopes? Doing my best to give comments knowing we don't yet have this information.

Room Function Number: 01.250.0036





Room Function Number: 01.250.0037

Room Name	Wet Bench Research New Hire - Open Lab
Function Location:	01 - Biology / 250 - Research Laboratory
Room Data Status	From RL_BIOWET-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	08FLbL28D2ZPVIVJVyBzLp
Revit Level	LEVEL 4

Areas

Programmed	456.00
Actual	441.00
Height:	0
Perimeter:	91

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	6
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory
Science	BIO-4 - Biology (general)
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

whatever materials are typical for a cell/ molecular lab are appropriate for this room

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

lots of storage, cabinets and drawers, and lots of counter space for benchtop equipment is important. the perimeter of the room would probably be best supplied with fixed casework but the center can be left open for movable casework. refer to what we've done in the molecular research suite in Phillips

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

at least one fume hood should be available in adjoining room (prep/equipment/support room)

at least one of the wet bench research labs designated for cell/molecule work should be in close vicinity to the research tissue culture facility

will need storage for hazardous chemicals (flammable cabinets?) (vented to outside?)

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

if this room is being used for cell/molecular work then lots of counter space for microfuges, thermocyclers, water baths, etc. I see that the prototype diagrams suggest one free wall where floor occupying equipment (refrigerators, incubators, etc.) could be placed - this is a good idea however most of these labs will require additional such free floor space which can be made available in adjoining equipment rooms.

Room Function Number: 01.250.0037

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (2)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

sinks in many of these rooms, but not all

two sinks sufficient for a cell/molecular focused lab

Room Function Number: 01.250.0037

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

the more outlets the better

if casework benches are movable then electrical service should drop from the ceiling

if one of these rooms is going to house a -80 freezer, backup generator power will be required. I expect those will be housed in a shared equipment rooms. It might be nice to have a couple plugs in each room that are on backup power so that if a faculty member has a piece of equipment that could use it they are available.

lighting above the work benches, not the aisles.

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

display not necessary, but if there is a microscope in the room might be nice to link the camera up to a display

lots of whiteboard space

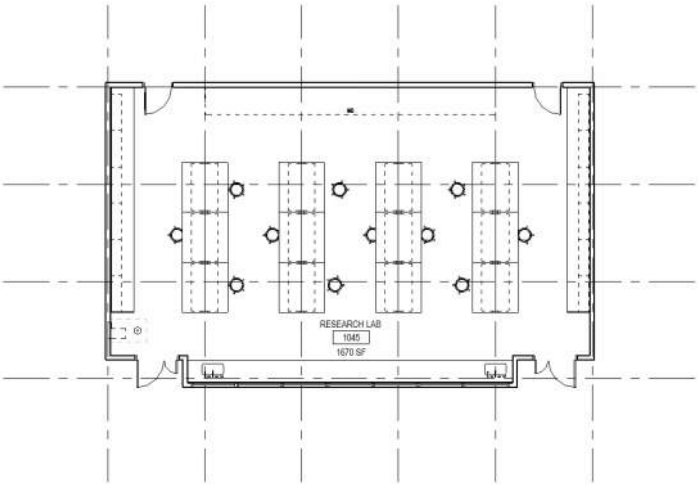
GENERAL ROOM REMARKS

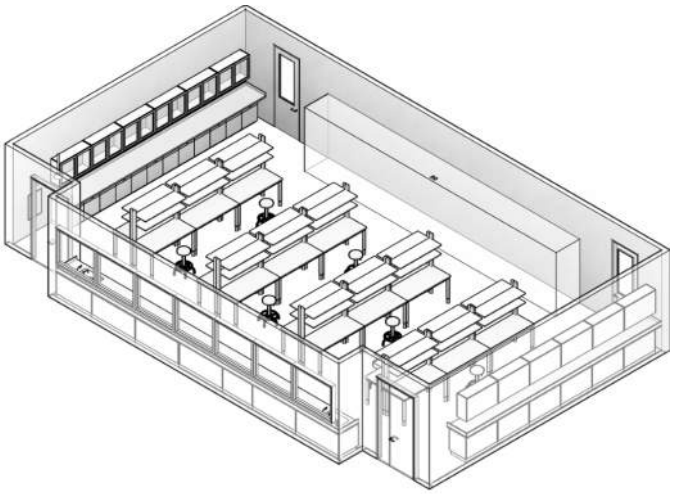
GENERAL ROOM REMARKS

assuming the room is going to be used for cell/molecular focused work. i think its likely most of these "wet-bench" research labs will be used in that way.

one of the difficulties in making comments about these labs right now (both teaching and research) is that we don't yet know how they will be associated with adjoining prep/equipment/support lab spaces. Where equipment is distributed will be totally depending on what the final floor plans look like (is a refrigerator going to have to go in the main research lab or if there space in an adjacent equipment room?) Where are the fume hoods located? Where are the autoclaves? How about microscopes? Doing my best to give comments knowing we don't yet have this information.

Room Function Number: 01.250.0037





Room Function Number: 01.255.0001

Room Name	Cell Tissue Culture - Research
Function Location:	01 - Biology / 255 - Research Laboratory Service
Room Data Status	Unique
Last modified	Thelen, Jessica, 3/12/2021 1:57 PM

Categorization

Room Number	
User Room Number	
IFCID	0QMyFAJLnCoQ7vn9EgC84j
Revit Level	LEVEL 3

Areas

Programmed	220.00
Actual	0.00
Height:	0
Perimeter:	0
Feasibility NSF	200

Groups / Classifications / Status

Borrowed Light	Control
Containment Level	BSL-2
From Model Phase	New Construction
Occupant	3
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Research-Lab Support
UWEC FICM Number	255 - Research Laboratory Service
Science	BIO-16 - Microbiology
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

utilization will vary with experiments, but generally 8-14 hours per day

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [ ] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
flooring must be nonporous and easy to disinfect a hazardous/biological spill

CASEWORK

CASEWORK TYPE
- [x] Fixed Casework
- [ ] Movable Casework
- [x] Wall Cabinets
- [ ] Wall Shelves
- [ ] Lockable Cabinets
- [ ] Other:

CASEWORK MATERIAL
- [ ] Metal
- [x] Wood
- [ ] Stainless Steel
- [ ] Other:

BENCHTOP MATERIAL
- [x] Epoxy
- [ ] Wood
- [ ] Stainless Steel
- [ ] Plastic Laminate
- [ ] Phenolic
- [ ] Other:

SHELVING MATERIAL
- [ ] Metal
- [x] Wood
- [ ] Stainless Steel
- [ ] Glass
- [ ] Other:

COMMENTS
benchtop material must be nonporous
all exterior materials should be able to withstand UV light for sanitizing the room

EXHAUST DEVICES
- [ ] Benchtop Fume Hoods:
- [ ] Walk-in Fume Hoods:
- [ ] Radioisotope Hoods:
- [ ] Perchloric Hoods:
- [ ] Bio Safety Cabs:
- [ ] Vert Lam Flow Hoods:
- [ ] Hori Lam Flow Hoods:
- [ ] Polypropylene Hoods:
- [ ] Canopy Hoods:
- [ ] ADA Hoods:

Room Function Number: 01.255.0001

EXHAUST DEVICES

Point Exhaust: ☐
Other: ☐

COMMENTS

currently one of our tissue culture rooms houses 2 bio safety cabinets (one is 4'x2', one is 6'x2.2') both are tall, have their own stands, exhaust into the room. another tissue culture room has another 6' biosafety cabinet with floor stand.

EQUIPMENT

Item 1	☑ boi safety cabinet	Qty: 1	Size: 4' x 2'	Vib. Sens. ☐	Vib. Cause ☐	
Item 2	☑ bio safety cabinet	Qty: 1	Size: 6' x 2.2'	Vib. Sens. ☐	Vib. Cause ☐	
Item 3	☑ CO2 cell incubator	Qty: 2		Vib. Sens. ☐	Vib. Cause ☐	Notes: stackable
Item 4	☑ liquid nitrogen dewars	Qty: 1		Vib. Sens. ☐	Vib. Cause ☐	Notes: requires electrical
Item 5	☑ fridge/freezer	Qty: 1	Size: 2.5' x 2.5'	Vib. Sens. ☐	Vib. Cause ☐	Notes: similar to a residential model
Item 6	☑ CO2 tanks	Qty: 2		Vib. Sens. ☐	Vib. Cause ☐	Notes: floor standing, secured to wall
Item 7	☑ centrifuge	Qty: 0		Vib. Sens. ☐	Vib. Cause ☐	
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

must either have space for a large centrifuge to spin down cells or the room must be in proximity to another room with this equipment

HVAC

ENVIRONMENT

Design Temp Cooling: 0 F Range +/-: 0
Relative Humidity Cooling: 0 % Range +/-: 0
Design Temp Heating: 0 F Range +/-: 0
Relative Humidity Heating: 0 % Range +/-: 0
Supply Air Filtration
Air Change Rate (ac/hr): 0
Room Pressure Indicator ☐
Pressure Monitor ☐
Laminar Flow Distribution ☐
Exhaust Air Filtration
Exhaust Air: 100% Exhausted ☑
Exhaust Air: Recirculated Air per ASHRAE 62.1 ☐
Low Wall Exhaust ☐

ACOUSTIC

Sound Transmision Class:
Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection: ☐
Other: ☑ CO2 detector

COMMENTS

Room Function Number: 01.255.0001

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☑ 1 per BSC + 1 per room
Carbon Diox. (CO2):	☑ prefer to have it piped in from tanks in a separate room
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☑
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

plumbing vents cannot hang down too low as the BSC's stand very tall

is a safety shower required for a BSL2 room?

sink material must be easy to disinfect hazardous biologicals

distilled water, non nanopure water access is needed for the CO2 incubators - if this is not plumbed in the room there will need to be other access to it.

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☑ UV light in the ceiling would be great to easily sanitize the room

COMMENTS

lights cannot hang too low as the BSC's stand very tall.

no natural light

backup power for freezer and CO2 incubators

Room Function Number: 01.255.0001

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ one small whiteboard

COMMENTS

card access preferred over key lock

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS all equipment listed is currently owned.

Room Function Number: 01.255.0002

Room Name	Cold Room
Function Location:	01 - Biology / 255 - Research Laboratory Service
Room Data Status	Unique
Last modified	Ivey, David, 2/5/2021 1:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	120.00	Borrowed Light	No Light
User Room Number		Actual	121.88	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbfe	Height:	0	Occupant	1
Revit Level	LEVEL 3	Perimeter:	44.5	Revit Model	UWEC-HOK-AR
		Feasibility NSF	400	Revit Sync Date	2021-04-06
				Space Type	Research-Lab Support
				UWEC FICM Number	255 - Research Laboratory Service
				Science	BIO-4 - Biology (general)
				Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 01.255.0002

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.255.0002

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.255.0003

Room Name	Cold Room
Function Location:	01 - Biology / 255 - Research Laboratory Service
Room Data Status	Unique
Last modified	Ivey, David, 2/5/2021 1:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	120.00	Borrowed Light	No Light
User Room Number		Actual	117.88	From Model Phase	New Construction
IFCID	08FLbL28D2ZPVIVJVyBzLr	Height:	0	Occupant	1
Revit Level	LEVEL 4	Perimeter:	43.5	Revit Model	UWEC-HOK-AR
		Feasibility NSF	400	Revit Sync Date	2021-04-06
				Space Type	Research-Lab Support
				UWEC FICM Number	255 - Research Laboratory Service
				Science	BIO-4 - Biology (general)
				Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 01.255.0003

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.255.0003

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.255.0005

Room Name	PCR Extraction Lab
Function Location:	01 - Biology / 255 - Research Laboratory Service
Room Data Status	Unique
Last modified	Ivey, David, 2/5/2021 1:14 PM

Categorization

Room Number	
User Room Number	
IFCID	2n8vGMyaP8fwASZkHsKbfZ
Revit Level	LEVEL 3

Areas

Programmed	230.00
Actual	234.00
Height:	0
Perimeter:	63
Feasibility NSF	230

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Lab Support
UWEC FICM Number	255 - Research Laboratory Service
Science	BIO-4 - Biology (general)
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION

- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING

- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE

- Applied ☐
- Integral ☐

Material:

CEILINGS

- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1

Size:

Type:

Material:

DOOR 2

Size:

Type:

Material:

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 01.255.0005

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.255.0005

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.255.0006

Room Name	Glasswash/Media Prep
Function Location:	01 - Biology / 255 - Research Laboratory Service
Room Data Status	Unique
Last modified	Thelen, Jessica, 3/11/2021 3:44 PM

Categorization

Room Number	
User Room Number	
IFCID	0QMyFAJLnCoQ7vn9EgC84f
Revit Level	LEVEL 3

Areas

Programmed	270.00
Actual	0.00
Height:	0
Perimeter:	0
Feasibility NSF	270

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Research-Lab Support
UWEC FICM Number	255 - Research Laboratory Service
Science	BIO-4 - Biology (general)
Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 01.255.0006

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☐
Wall Shelves	☐
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☑
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

stainless benchtop near glasswash area

CASEWORK MATERIAL

Metal	☑
Wood	☐
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☑
Wood	☐
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☑ (Qty: 0)
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

some type of laminar hood would increase flexibility of the space

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (3)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (1)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☑
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☐
Other:	☐

COMMENTS

at least 3-4 sinks, at least one large stainless sink

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.255.0006

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ whiteboard

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS	are autoclaves housed in a different room?

Room Function Number: 01.255.0007

Room Name	Dark Room - LED Box Research
Function Location:	01 - Biology / 255 - Research Laboratory Service
Room Data Status	Unique
Last modified	Ivey, David, 2/5/2021 1:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	No Light
User Room Number		Actual	0.00	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC84G	Height:	0	Occupant	1
		Perimeter:	0	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-05
				Space Type	Research-Lab Support
				UWEC FICM Number	255 - Research Laboratory Service
				Science	BIO-27 - Animal Research
				Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 01.255.0007

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.255.0007

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.255.0010

Room Name	Microscopy
Function Location:	01 - Biology / 255 - Research Laboratory Service
Room Data Status	Unique
Last modified	Thelen, Jessica, 3/11/2021 5:59 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	115.00	Borrowed Light	No Light
User Room Number		Actual	115.31	From Model Phase	New Construction
IFCID	08FLbL28D2ZPVIVJVyBzLw	Height:	0	Occupant	1
Revit Level	LEVEL 4	Perimeter:	43	Revit Model	UWEC-HOK-AR
		Feasibility NSF	100	Revit Sync Date	2021-04-06
				Space Type	Research-Lab Support
				UWEC FICM Number	255 - Research Laboratory Service
				Science	BIO-16 - Microbiology
				Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
limiting vibration is fairly important
solid doors, no glass
no carpet

Room Function Number: 01.255.0010

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☐
Wall Cabinets	☐
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

tables with microscopes should be low enough that researcher can sit at the microscope with feet on the floor

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	microscopes (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 2	☑	computers (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 3	☑	incubator (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: benchtop
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

multiple miscroscopes and associated computer w/ monitors. These microscopes include compound and dissecting as well as fluorescent. Minimum of 4 separate spaces for microscopes (maybe 6) with outlets, space for computer, drawers or separate cabinetry for maintenance items, benchtop space for small incubator and appropriate outlets

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☑ no natural light

COMMENTS

strong data connections very important
room needs to be separate from flow of traffic
ability to darken room completely is important

Room Function Number: 01.255.0010

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.255.0014

Room Name	Cell Tissue Culture - Research
Function Location:	01 - Biology / 255 - Research Laboratory Service
Room Data Status	Unique
Last modified	Thelen, Jessica, 3/10/2021 4:10 PM

Categorization

Room Number	
User Room Number	
IFCID	2n8vGMyaP8fwASZkHsKbfv
Revit Level	LEVEL 3

Areas

Programmed	220.00
Actual	224.25
Height:	0
Perimeter:	62
Feasibility NSF	76

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Lab Support
UWEC FICM Number	255 - Research Laboratory Service
Science	BIO-16 - Microbiology
Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [ ] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: rubber

FLOOR BASE
- [ ] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☐
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☑
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

metal surfaces are better and can be more easily disinfected

CASEWORK MATERIAL

Metal	☑
Wood	☐
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☑
Wood	☐
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☑ (Qty: 0)
Hori Lam Flow Hoods:	☑ (Qty: 0)
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

not sure about type of flow hood - consult with those who use cell culture

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 01.255.0014

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☑
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

not sure about specifics of air flow for cell culture, consult with those who use cell culture

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☑
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☐
Other:	☐

COMMENTS

at least one sink

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.255.0014

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ whiteboard

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.255.0015

Room Name	Microscopy
Function Location:	01 - Biology / 255 - Research Laboratory Service
Room Data Status	Unique
Last modified	Thelen, Jessica, 3/11/2021 5:09 PM

Categorization

Room Number	
User Room Number	
IFCID	2n8vGMyaP8fwASZkHsKbcN
Revit Level	LEVEL 3

Areas

Programmed	115.00
Actual	115.62
Height:	0
Perimeter:	43.5
Feasibility NSF	100

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Lab Support
UWEC FICM Number	255 - Research Laboratory Service
Science	BIO-16 - Microbiology
Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 01.255.0015

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☑	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☑
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 01.255.0015

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☑ no windows

COMMENTS

120V outlets on wall above bench every 3' or less

Room Function Number: 01.255.0015

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS	interior room w/ no windows

Room Function Number: 01.255.0016

Room Name	Microscopy
Function Location:	01 - Biology / 255 - Research Laboratory Service
Room Data Status	Unique
Last modified	Thelen, Jessica, 3/11/2021 5:19 PM

Categorization

Room Number	
User Room Number	
IFCID	0QMyFAJLnCoQ7vn9EgC84O
Revit Level	LEVEL 3

Areas

Programmed	115.00
Actual	0.00
Height:	0
Perimeter:	0
Feasibility NSF	100

Groups / Classifications / Status

Borrowed Light	No Light
Containment Level	BSL-2
From Model Phase	New Construction
Occupant	3
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Research-Lab Support
UWEC FICM Number	255 - Research Laboratory Service
Science	BIO-16 - Microbiology
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

- 8 hours/day ☐
- 14 hours/day ☑
- 24 hours/day ☐
- Other: ☐

COMMENTS

utilization varies with research experiments, 8-14 hrs per day

Room Function Number: 01.255.0016

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐
- Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
- Size:
- Type:
- Material:

DOOR 2
- Size:
- Type:
- Material:

DOOR 3
- Size:
- Type:
- Material:

HAZARD / SHIELDING
- Type:

COMMENTS
doors should not have windows
if this is a larger room, slides could be prepared and stained in this room. in this case, flooring should be nonporous to easily disinfect hazardous biological spills

CASEWORK

CASEWORK TYPE
- Fixed Casework ☑
- Movable Casework ☐
- Wall Cabinets ☑
- Wall Shelves ☑
- Lockable Cabinets ☐
- Other: ☐

CASEWORK MATERIAL
- Metal ☐
- Wood ☑
- Stainless Steel ☐
- Other: ☐

BENCHTOP MATERIAL
- Epoxy ☐
- Wood ☐
- Stainless Steel ☐
- Plastic Laminate ☐
- Phenolic ☐
- Other: ☐

SHELVING MATERIAL
- Metal ☐
- Wood ☑
- Stainless Steel ☐
- Glass ☐
- Other: ☐

COMMENTS
if the room is smaller then it will only be used to view slides on microscopes. however, if it is a larger room slides could be prepared and stained in this room, in which case nonporous benchtops will be needed in case of spills

EXHAUST DEVICES
- Benchtop Fume Hoods: ☑ (Qty: 0)
- Walk-in Fume Hoods: ☐
- Radioisotope Hoods: ☐
- Perchloric Hoods: ☐
- Bio Safety Cabs: ☐
- Vert Lam Flow Hoods: ☐
- Hori Lam Flow Hoods: ☐
- Polypropylene Hoods: ☐
- Canopy Hoods: ☐
- ADA Hoods: ☐

EXHAUST DEVICES

Point Exhaust: ☐
Other: ☐

COMMENTS

if this is a larger room and slides are prepared and stained then a benchtop fume/chemical hood would be needed

EQUIPMENT

Item 1	☑ microscopes (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: tabletop
Item 2	☐			
Item 3	☐			
Item 4	☐			
Item 5	☐			
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:
Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection: ☐
Other: ☐

COMMENTS

if larger room and slides will be prepared and stained then air exhaust will be needed for the fumes

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

if larger room where slides can be prepared and stained then need gas, ca, sink, hw, cw, di/ro, eye wash. if smaller room then need to be adjacent to a room with these services

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☑ no windows

COMMENTS

MANY outlets needed for equipment
MUST be able to make the room completely dark when working with fluorescence. No windows or motion-activated light sensors

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

secure because of expensive equipment

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ 1 small whiteboard

COMMENTS

as multiple biology faculty use microscopes, it would be preferable to have multiple smaller microscopy rooms vs 1 large room for all biology.

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.255.0017

Room Name	Microscopy
Function Location:	01 - Biology / 255 - Research Laboratory Service
Room Data Status	Unique
Last modified	Thelen, Jessica, 3/11/2021 6:09 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	115.00	Borrowed Light	No Light
User Room Number		Actual	0.00	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC844	Height:	0	Occupant	1
Revit Level	LEVEL 3	Perimeter:	0	Revit Model	UWEC-HOK-AR
		Feasibility NSF	100	Revit Sync Date	2021-04-05
				Space Type	Research-Lab Support
				UWEC FICM Number	255 - Research Laboratory Service
				Science	BIO-16 - Microbiology
				Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☑
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☑
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☑
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☑ rubber

FLOOR BASE
- Applied ☑
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
having glass panels in doors is important for teaching labs
floor needs to be a non-reactive material

Room Function Number: 01.255.0017

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

not sure that wood is the best material for shelving, particularly for lower shelves under benches where we work with solutions and water

CASEWORK MATERIAL

Metal	☑
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 2) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☑	(Qty: 2)
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

laminar flow hoods could be useful either in the lab or in an adjacent room

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

small equipment around the perimeter of the room

easy access to a 4C refrigerator and -20 freezer will also be important as well as access to an ice machine (somewhere in the building)

HVAC

ENVIRONMENT

Design Temp Cooling:	75 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	50 F Range +/-: 5
Relative Humidity Heating:	72 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

need access to high purity water but it does not have to be plumbed to this room
vacuum and natural gas useful but not required

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☑ wifi

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

lots of outlets around perimeter in addition to outlets at benches

Room Function Number: 01.255.0017

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.570.0001

Room Name	Vivarium - Zebrafish Quarantine
Function Location:	01 - Biology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:09 PM

Categorization

Room Number	
User Room Number	
IFCID	3koR1zR_H6fPWxO7rC9mQw
Revit Level	LEVEL 4

Areas

Programmed	114.00
Actual	113.85
Height:	0
Perimeter:	42.8
Feasibility NSF	200

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Vivarium-Animal Housing
UWEC FICM Number	570 - Animal Facilities
Vivarium	All Spaces
Science	BIO-27 - Animal Research
Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS
Zebrafish holding only. Other species of fish cannot be housed in the same room or on the same water system.

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☐
CMU	☑
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☑
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☐
Integral	☑
Material:	Epoxy

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☑
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	4'-0" x 8'-0"
Type:	Standard
Material:	Metal

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
Flooring needs to be monolithic and prevent slipping
Paint has to be animal-safe and humidity-friendly.

Room Function Number: 01.570.0001

CASEWORK

CASEWORK TYPE

Fixed Casework	☑
Movable Casework	☐
Wall Cabinets	☐
Wall Shelves	☐
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☑
Other:	☐

COMMENTS

Need table/countertop for breeding tanks + fish husbandry that is waterproof (high density plastic; not stainless steel - needs to be able to be wet

Have portable shelves currently for storage; need shelving above/below tabletop for storage

Benchtop = can get wet; e.g. epoxy/plastic

CASEWORK MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☐
Glass	☐
Other:	☑ Phenolic

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑ Aquaneering main fish system (Qty: 1) Size: 72x24x72 Vib. Sens. ☐ Vib. Cause ☐ Notes: Heavy loading, 1500 LBS
Item 2	☑ Computer set up (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: requires power and data
Item 3	☑ Microscope/microinjection apparatus (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 4	☑ Dishwasher (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: requires power and water
Item 5	☑ small refrigerator/freezer (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: requires power
Item 6	☑ small incubator (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: requires power
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

**Need to be able to control room temperature; Fish optimally kept at 83.5 F or 20 C

**Room needs to handle humidity from temp; typical dedicated zebrafish room has10-12 air exchanges per hour

*Sufficient sound isolation to prevent loud noises from startling fish

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (2)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☑
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

*RO water needed in both fish rooms

*If using RO system, municipal water line with minimum incoming 40-45psi; if central RO, need 150 gallons to fill and 20g/day for water exchange. Both sources = need female threaded ball valve

*Floor drain near perimeter/rack (not under rack, not in center); trench drain useful

*Each zebra fish room needs a separate water system

*1 large sink for washing and feeding, 1 small sink for hand washing

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑ No. of Outlets: Coordinate final count with number of tanks, lights, and filters
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☑
Power at Table	☑
Data	☑
Phone	☐
Other:	☑ phone only if sound isolation limits cell service

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☑ no natural light or motion sensor lights

COMMENTS

**2 dedicated circuits with 2 duplex outlets earch for primary system (UPS, GFI-protected, 42"-48" off ground); near (2'-3') but not behind rack

*additional circuits in room for equipment plugs (standard electrical sockets for other uses)

*need lighting on 24-hour timers (animal care)

*Lighting; not directly near rack (for maintenance, rack goes up to ceiling), 4000-5000 K light bulbs (or daylight spectrum LEDs)

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

Coordinate vivarium access and holding room access for final security.

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS	Appropriate alarms for monitoring temperature and water flow and can send notifications to specific researchers

Room Function Number: 01.570.0002

Room Name	Vivarium - Zebrafish Holding
Function Location:	01 - Biology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:09 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	228.00	Borrowed Light	No Light
User Room Number		Actual	227.81	From Model Phase	New Construction
IFCID	3koR1zR_H6fPWxO7rC9mR4	Height:	0	Occupant	1
Revit Level	LEVEL 4	Perimeter:	63	Revit Model	UWEC-HOK-AR
		Feasibility NSF	200	Revit Sync Date	2021-04-06
				Space Type	Vivarium-Animal Housing
				UWEC FICM Number	570 - Animal Facilities
				Vivarium	All Spaces
				Science	BIO-27 - Animal Research
				Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☑
- Other: ☐

COMMENTS
Zebrafish holding only. Other species of fish cannot be housed in the same room or on the same water system.

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☑
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☑
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☑
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☑
- Material: Epoxy

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☑
- Special Ceilings: ☐
- Other: ☐

DOOR 1
- Size: 4'-0" x 8'-0"
- Type: Standard
- Material: Metal

DOOR 2
- Size:
- Type:
- Material:

DOOR 3
- Size:
- Type:
- Material:

HAZARD / SHIELDING
Type:

COMMENTS
Flooring needs to be monolithic and prevent slipping
Paint has to be animal-safe and humidity-friendly.

Room Function Number: 01.570.0002

CASEWORK

CASEWORK TYPE

Fixed Casework	☑
Movable Casework	☐
Wall Cabinets	☐
Wall Shelves	☐
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☑
Other:	☐

COMMENTS

Need table/countertop for breeding tanks + fish husbandry that is waterproof (high density plastic; not stainless steel - needs to be able to be wet

Have portable shelves currently for storage; need shelving above/below tabletop for storage

Benchtop = can get wet; e.g. epoxy/plastic

CASEWORK MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☐
Glass	☐
Other:	☑ Phenolic

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑ Aquaneering main fish system (Qty: 1) Size: 72x24x72 Vib. Sens. ☐ Vib. Cause ☐ Notes: Heavy loading, 1500 LBS
Item 2	☑ Computer set up (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: requires power and data
Item 3	☑ Microscope/microinjection apparatus (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 4	☑ Dishwasher (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: requires power and water
Item 5	☑ small refrigerator/freezer (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: requires power
Item 6	☑ small incubator (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: requires power
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 01.570.0002

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

**Need to be able to control room temperature; Fish optimally kept at 83.5 F or 20 C

**Room needs to handle humidity from temp; typical dedicated zebrafish room has10-12 air exchanges per hour

*Sufficient sound isolation to prevent loud noises from startling fish

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (2)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☑
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

*RO water needed in both fish rooms

*If using RO system, municipal water line with minimum incoming 40-45psi; if central RO, need 150 gallons to fill and 20g/day for water exchange. Both sources = need female threaded ball valve

*Floor drain near perimeter/rack (not under rack, not in center); trench drain useful

*Each zebra fish room needs a separate water system

*1 large sink for washing and feeding, 1 small sink for hand washing

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑ No. of Outlets: Coordinate final count with number of tanks, lights, and filters
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☑
Power at Table	☑
Data	☑
Phone	☐
Other:	☑ phone only if sound isolation limits cell service

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☑ no natural light or motion sensor lights

COMMENTS

**2 dedicated circuits with 2 duplex outlets earch for primary system (UPS, GFI-protected, 42"-48" off ground); near (2'-3') but not behind rack

*additional circuits in room for equipment plugs (standard electrical sockets for other uses)

*need lighting on 24-hour timers (animal care)

*Lighting; not directly near rack (for maintenance, rack goes up to ceiling), 4000-5000 K light bulbs (or daylight spectrum LEDs)

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

Coordinate vivarium access and holding room access for final security.

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS	Appropriate alarms for monitoring temperature and water flow and can send notifications to specific researchers

Room Function Number: 01.570.0003

Room Name	Vivarium - Isolation Cubicles
Function Location:	01 - Biology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	3bVYY0S1v0JhiQgvwMH7xk
Revit Level	LEVEL 4

Areas

Programmed	280.00
Actual	0.00
Height:	0
Perimeter:	0
Feasibility NSF	400

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	3
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Vivarium-Animal Housing
UWEC FICM Number	570 - Animal Facilities
Vivarium	All Spaces
Science	BIO-27 - Animal Research
Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☐
CMU	☑
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☑
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☐
Integral	☑
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☑
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	4'-6" x 8'-0"
Type:	Standard
Material:	Metal

DOOR 2

Size:	
Type:	
Material:	

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 01.570.0003

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☑ Ventilated Cages (Qty: 0)

COMMENTS

EQUIPMENT

Item 1	☑ Ventilated Cage (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐		
Item 3	☐		
Item 4	☐		
Item 5	☐		
Item 6	☐		
Item 7	☐		
Item 8	☐		
Item 9	☐		
Item 10	☐		

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (1)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☑
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☑
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.570.0003

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.570.0007

Room Name	Vivarium - Isolation Cubicles
Function Location:	01 - Biology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	280.00	Borrowed Light	No Light
User Room Number		Actual	0.00	From Model Phase	New Construction
IFCID	3bVYY0S1v0JhiQgvwMH7xo	Height:	0	Occupant	3
Revit Level	LEVEL 4	Perimeter:	0	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	570 - Animal Facilities
				Vivarium	All Spaces
				Science	BIO-19 - Neuroscience
				Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☐
CMU	☑
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☑
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE
Applied	☐
Integral	☑
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☑
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	4'-6" x 8'-0"
Type:	Standard
Material:	Metal

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 01.570.0007

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☑ Ventilated Cages (Qty: 0)

COMMENTS

EQUIPMENT

Item 1	☑ Ventilated Cage (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐		
Item 3	☐		
Item 4	☐		
Item 5	☐		
Item 6	☐		
Item 7	☐		
Item 8	☐		
Item 9	☐		
Item 10	☐		

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (1)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☑
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☑
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.570.0007

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.570.0010

Room Name	Neurology Research Lab - Procedure
Function Location:	01 - Biology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number
User Room Number

Areas

Programmed	0.00
Actual	0.00
Height:	0
Perimeter:	0
Feasibility NSF	1,500

Groups / Classifications / Status

Borrowed Light	No Light
Occupant	3
Space Type	Research-Wet Lab
UWEC FICM Number	570 - Animal Facilities
Vivarium	All Spaces
Science	BIO-19 - Neuroscience
Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☐
CMU	☑
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☑
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☐
Integral	☑
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☑
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	4'-6" x 8'-0"
Type:	Standard
Material:	Metal

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 01.570.0010

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☑ Ventilated Cages (Qty: 0)

COMMENTS

EQUIPMENT

Item 1	☑ Ventilated Cage (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐		
Item 3	☐		
Item 4	☐		
Item 5	☐		
Item 6	☐		
Item 7	☐		
Item 8	☐		
Item 9	☐		
Item 10	☐		

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (1)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☑
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☑
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.570.0010

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.580.0001

Room Name	Environmental Chamber - Dark Room
Function Location:	01 - Biology / 580 - Greenhouse
Room Data Status	From RL_GRHS-G
Last modified	Thelen, Jessica, 3/10/2021 11:21 AM

Categorization

Room Number	
User Room Number	
IFCID	1hSACoGWX3uxVkY8MYNNis
Revit Level	PENTHOUSE

Areas

Programmed	100.00
Actual	99.00
Height:	0
Perimeter:	40.5

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-27
Space Type	Research-Specialty Lab
UWEC FICM Number	580 - Greenhouse
Science	BIO-7 - Botany
Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☑
Other:	☐

WALL PROTECTION

Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☑
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☐
Integral	☑
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☑ Greenhouse Structure
Other:	☐

DOOR 1

Size:	3'-6" x 8'-0"
Type:	Special Hardware/ Seal
Material:	Metal

DOOR 2

Size:	
Type:	
Material:	

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING
Type:

COMMENTS
ideally this would be a rotating door (as seen for dark rooms for film developing) so that a person could enter without letting light into the room. Not sure how this would work with the environmental control that is also needed.

Room Function Number: 01.580.0001

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☐
Wall Shelves	☐
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☑
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

tables inside the room would be useful

CASEWORK MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☑
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☑
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 01.580.0001

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

experiments currently run at 22C. It is important that the temperature does not fluctuate during the experiment (think of the typical capabilities of an environmental room or a growth chamber). The ability to change temperature is also important (into the low 30C range or down into the low teens).

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑ No. of Outlets: 6
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

The room has to be absolutely dark. that means it is fully sealed to let no external light in.
internal lights that can be switched on could be useful, but I could also just equip the room with plug in lighting or even flashlights.

Room Function Number: 01.580.0001

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

key lock or card reader

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

This room is intended to house LED setups for plant growth experiments. Those LED setups currently consist of 4 boxes (2'x2'x2' each) with the LED lights built in. These boxes have no environmental control so that is why an environment room in Phillips is currently being used. It is important for this work that the temperature be tightly and specifically controlled. It is also critical for this work that the environment si absolutely dark so that the only light the plants are exposed to is coming from the LEDs. In the new building an environmental dark room would allow the same LED setups to be moved over and used. However, an alternative option is to purchase real LED growth chambers (4). These could be housed in a conventional room or even in the plant growth chamber space we have programmed, though that room would also have to be able to be made completely dark for short periods of time when we are putting the plants in and rotating them during an experiment.

Room Function Number: 01.580.0002

Room Name	Greenhouse - Tropical Room
Function Location:	01 - Biology / 580 - Greenhouse
Room Data Status	From RL_GRHS-E
Last modified	Thelen, Jessica, 3/1/2021 1:18 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	1,200.00	Borrowed Light	Light
User Room Number		Actual	928.00	From Model Phase	New Construction
IFCID	1mYupM6knA1BMFW4naIMUu	Height:	0	Occupant	6
Revit Level	PENTHOUSE	Perimeter:	134.67	Revit Model	UWEC-HOK-AR
		Feasibility NSF	1,000	Revit Sync Date	2021-04-26
				Space Type	Research-Specialty Lab
				UWEC FICM Number	580 - Greenhouse
				Science	BIO-7 - Botany
				Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS
Combines with 1.5 other 500sf rooms to create one 1200sf room

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☑
Other:	☐

WALL PROTECTION
Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☑
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE
Applied	☐
Integral	☑
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☑ Greenhouse Structure
Other:	☐

DOOR 1
Size:	3'-6" x 8'-0"
Type:	Special Hardware/ Seal
Material:	Metal

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
E-W ridge line
tempered glass on all walls and roof
minimum ceiling height 15'-0"

Room Function Number: 01.580.0002

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☐
Wall Shelves	☐
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☑
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

adjustable height and movable plant benches

CASEWORK MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☑
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☑
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

fogging unit connected to clean water must be installed to increase humidity

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.580.0002

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.580.0004

Room Name	Greenhouse - Growing Room, Propagation
Function Location:	01 - Biology / 580 - Greenhouse
Room Data Status	From RL_GRHS-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:20 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	500.00	Borrowed Light	Light
User Room Number		Actual	444.67	From Model Phase	New Construction
IFCID	1mYupM6knA1BMFW4naIMP3	Height:	0	Occupant	6
Revit Level	PENTHOUSE	Perimeter:	84.67	Revit Model	UWEC-HOK-AR
		Feasibility NSF	500	Revit Sync Date	2021-04-26
				Space Type	Research-Specialty Lab
				UWEC FICM Number	580 - Greenhouse
				Science	BIO-7 - Botany
				Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS
combine with remaining 60SF to make one 600-700sf room

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☑
Other:	☐

WALL PROTECTION
Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☑
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE
Applied	☐
Integral	☑
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☑ Greenhouse Structure
Other:	☐

DOOR 1
Size:	3'-6" x 8'-0"
Type:	Special Hardware/ Seal
Material:	Metal

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
E-W ridge line
minimum ceiling height 13'-0"
tempered glass on all walls and roof
automated shade cloth extension and retraction installed in at least 30% of all growing rooms (except propagation house) - connected to automated environmental controls for light and temperature

Room Function Number: 01.580.0004

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☐
Wall Shelves	☐
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☑
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

adjustable height and movable growing benches

mist bench required

CASEWORK MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☑
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☑
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

automated motorized venting for temperature control - surface area of wall and roof venting is to meet or exceed 25% of the floor surface area

CFM powered ventilation system with thermostat, motorized shutters, and exhaust fans much preferred over passive automated ridge vents with thermostats

Argus environmental control system

Sensaphone or equivalent for remote system monitoring and notification

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

Rainwater collection and use in greenhouse would be best solution with backup from city water. If only city water is used, an automated system for adjusting chemistry of water is required to fix high pH and low magnesium.

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☑ LED grow lights

COMMENTS

half of room should have indirect light only

Adequacy of light should be measured using DLI (not footcandles). Need to maintain 16-20 moles/m2/day DLI at all times of the year.

Lumigrow to automate control of light levels.

Room Function Number: 01.580.0004

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.580.0005

Room Name	Greenhouse - Growing Room, Succulent
Function Location:	01 - Biology / 580 - Greenhouse
Room Data Status	From RL_GRHS-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:20 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	500.00	Borrowed Light	Light
User Room Number		Actual	444.67	From Model Phase	New Construction
IFCID	1mYupM6knA1BMFW4naIMP1	Height:	0	Occupant	6
Revit Level	PENTHOUSE	Perimeter:	84.67	Revit Model	UWEC-HOK-AR
		Feasibility NSF	500	Revit Sync Date	2021-04-26
				Space Type	Research-Specialty Lab
				UWEC FICM Number	580 - Greenhouse
				Science	BIO-7 - Botany
				Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS
combine with remaining 60sf to make one 600sf room

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☑
Other:	☐

WALL PROTECTION
Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☑
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE
Applied	☐
Integral	☑
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☑ Greenhouse Structure
Other:	☐

DOOR 1
Size:	3'-6" x 8'-0"
Type:	Special Hardware/ Seal
Material:	Metal

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
E-W ridge line
tempered glass on all walls and roof
minimum ceiling height 13'-0"
automated shade cloth extension and retraction installed in at least 30% of all growing rooms (except propagation house) - connected to automated environmental controls for light and temperature

Room Function Number: 01.580.0005

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☐
Wall Shelves	☐
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☑
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

adjustable height and movable growing benches

CASEWORK MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☑
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☑
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

automated venting for temperature control - surface area of wall and roof vents to meet or exceed 25% of floor area

CFM powered ventilation system with thermostat, motorized shutters, and exhaust fans much preferred over passive automated ridge vents with thermostats.

Argus environmental control system

Sensaphone or equivalent for remote system monitoring and notification

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

Rainwater collection and use in the greenhouse would be the best solution with backup from city water. If only city water is used, an automated system for adjusting chemistry of water is required to fix high pH and low magnesium.

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☑ LED grow lights

COMMENTS

Adequacy of light should be measured in DLI (not foot candles). Need to maintain 16-20 moles/m2/day DLI at all time of the year

Lumigrow to automate control of light levels in grow rooms

Room Function Number: 01.580.0005

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.580.0006

Room Name	Greenhouse - Growing Room, Temperate
Function Location:	01 - Biology / 580 - Greenhouse
Room Data Status	From RL_GRHS-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:20 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	500.00	Borrowed Light	Light
User Room Number		Actual	444.67	From Model Phase	New Construction
IFCID	1mYupM6knA1BMFW4naIMU$	Height:	0	Occupant	6
		Perimeter:	82.86	Revit Model	UWEC-HOK-AR
Revit Level	PENTHOUSE	Feasibility NSF	500	Revit Sync Date	2021-04-26
				Space Type	Research-Specialty Lab
				UWEC FICM Number	580 - Greenhouse
				Science	BIO-7 - Botany
				Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS
combine with remaining 60sf to make one 600sf room

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☑
Other:	☐

WALL PROTECTION
Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☑
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE
Applied	☐
Integral	☑
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☑ Greenhouse Structure
Other:	☐

DOOR 1
Size:	3'-6" x 8'-0"
Type:	Special Hardware/ Seal
Material:	Metal

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
E-W ridge line
tempered glass on all walls and roof
minimum ceiling height 13'-0"
automated shade cloth extension and retraction installed in at least 30% of all growing rooms (except propagation house) - connected to automated environmental controls for light and temperature

Room Function Number: 01.580.0006

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☐
Wall Shelves	☐
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☑
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

adjustable height and movable growing benches

CASEWORK MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☑
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☑
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

automated venting for temperature control - surface area of wall and roof vents to meet or exceed 25% of floor area

CFM powered ventilation system with thermostat, motorized shutters, and exhaust fans much preferred over passive automated ridge vents with thermostats.

Argus environmental control system

Sensaphone or equivalent for remote system monitoring and notification

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

Rainwater collection and use in the greenhouse would be the best solution with backup from city water. If only city water is used, an automated system for adjusting chemistry of water is required to fix high pH and low magnesium.

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☑ LED grow lights

COMMENTS

Adequacy of light should be measured in DLI (not foot candles). Need to maintain 16-20 moles/m2/day DLI at all time of the year

Lumigrow to automate control of light levels in grow rooms

Room Function Number: 01.580.0006

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.580.0007

Room Name	Greenhouse - Growing Room
Function Location:	01 - Biology / 580 - Greenhouse
Room Data Status	From RL_GRHS-A
Last modified	Thelen, Jessica, 3/1/2021 12:22 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	500.00	Borrowed Light	Light
User Room Number		Actual	444.67	From Model Phase	New Construction
IFCID	1mYupM6knA1BMFW4naIMUw	Height:	0	Occupant	6
Revit Level	PENTHOUSE	Perimeter:	82.86	Revit Model	UWEC-HOK-AR
		Feasibility NSF	500	Revit Sync Date	2021-04-26
				Space Type	Research-Specialty Lab
				UWEC FICM Number	580 - Greenhouse
				Science	BIO-7 - Botany
				Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS
Not sure what is meant by corridor. Teaching greenhouse of at least 600sf. Room for multiple growth chambers.

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☑
Other:	☐

WALL PROTECTION
Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☑
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE
Applied	☐
Integral	☑
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☑
	Greenhouse Structure
Other:	☐

DOOR 1
Size:	3'-6" x 8'-0"
Type:	Special Hardware/ Seal
Material:	Metal

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
Minimum ceiling height 13'-0"
Tempered glass walls and roof

Room Function Number: 01.580.0007

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☐
Wall Shelves	☐
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☑
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

adjustable height and movable growing benches

CASEWORK MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☑
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☑
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.580.0007

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.580.0008

Room Name	Greenhouse - Head House
Function Location:	01 - Biology / 580 - Greenhouse
Room Data Status	From RL_GRHS-B
Last modified	Niewoehner, Daniel, 3/11/2021 5:18 PM

Categorization

Room Number	
User Room Number	
IFCID	1mYupM6knA1BMFW4naIMUs
Revit Level	PENTHOUSE

Areas

Programmed	600.00
Actual	924.00
Height:	0
Perimeter:	138.67

Groups / Classifications / Status

Borrowed Light	Light
From Model Department	Biology
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Research-Specialty Lab
UWEC FICM Number	580 - Greenhouse
Science	BIO-7 - Botany
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS

North side of greenhouses

Proximity to elevators and delivery area

Room Function Number: 01.580.0008

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☑
Other:	☐

WALL PROTECTION

Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☑
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☐
Integral	☑
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☑
	Greenhouse Structure
Other:	☐

DOOR 1

Size:	3'-6" x 8'-0"
Type:	Special Hardware/ Seal
Material:	Metal

DOOR 2

Size:	
Type:	
Material:	

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☑
Movable Casework	☑
Wall Cabinets	☐
Wall Shelves	☐
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☑
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☑
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☑
Glass	☐
Other:	☐

COMMENTS

adjustable height and movable potting and propagation benches
fixed storage for pots, potting media

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐

Room Function Number: 01.580.0008

EXHAUST DEVICES

ADA Hoods: ☐
Point Exhaust: ☐
Other: ☐

COMMENTS

EQUIPMENT

Item 1 ☑ Vented Cabinet (Qty: 1) Size: 48x24x84 Vib. Sens. ☐ Vib. Cause ☐
Item 2 ☐
Item 3 ☐
Item 4 ☐
Item 5 ☐
Item 6 ☐
Item 7 ☐
Item 8 ☐
Item 9 ☐
Item 10 ☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling: 0 F Range +/-: 0
Relative Humidity Cooling: 0 % Range +/-: 0
Design Temp Heating: 0 F Range +/-: 0
Relative Humidity Heating: 0 % Range +/-: 0
Supply Air Filtration
Air Change Rate (ac/hr): 0
Room Pressure Indicator ☐
Pressure Monitor ☐
Laminar Flow Distribution ☐
Exhaust Air Filtration
Exhaust Air: 100% Exhausted ☐
Exhaust Air: Recirculated Air per ASHRAE 62.1 ☐
Low Wall Exhaust ☐

ACOUSTIC

Sound Transmision Class:
Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection: ☐
Other: ☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS): ☐
Vacuum (VAC): ☐
Carbon Diox. (CO2): ☐
Compressed Air (CA): ☐
Chilled Water (CW S/R): ☐
Nitrogen (N2): ☐
Helium (He): ☐
Argon (Ar): ☐
Oxygen (O2): ☐
Hydrogen (H): ☐
Liq Nitrogen (LN2): ☐
Special Gas 1 (SG1): ☐
Special Gas 2 (SG2): ☐
Other: ☐

SINKS

Standard ☐
ADA ☐
Scullery ☐
Epoxy ☐
Stainless Steel ☑ (0)
Marine Edge ☐

SERVICES AT SINKS

Hot Water (HW) ☑
Cold Water (CW) ☑
High Purity Water ☐
Eye Wash ☐
Drench Hose ☐
DI/RO Water (DI/RO): ☐

OTHER

Floor Drain (FD) ☑
Floor Sink (FS) ☐
Trench Drain (TD) ☐
Safety Shower (SS) ☐
Eye Wash (EW) ☐
Other: ☐

COMMENTS

large double sinks with drying racks
open shower area for hosing bugs off of plants

Room Function Number: 01.580.0008

ELECTRICAL / LIGHTING

ELECTRICAL

- Raceway ☐
- 110V, 20A, 1 Phase: ☐
- 208V, 30A, 1 Phase ☐
- 208V, 30A, 3 Phase: ☐
- Standby Power ☐
- UPS ☐
- Power at Table ☐
- Data ☐
- Phone ☐
- Other: ☐

LIGHTING

- 80-100 fc @ wrk srfc ☐
- 30-60 fc @ wrk srfc ☐
- Other fc @ wrk srfc: ☐
- Task Lighting ☐
- Dimmable Lighting ☐
- Zoned Lighting ☐
- Prefer Natural Light ☐
- Other: ☐

COMMENTS

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.580.0009

Room Name	Greenhouse - Plant Growth Chambers
Function Location:	01 - Biology / 580 - Greenhouse
Room Data Status	From RL_GRHS-H
Last modified	Thelen, Jessica, 3/11/2021 6:20 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	400.00	Borrowed Light	No Light
User Room Number		Actual	415.08	From Model Phase	New Construction
IFCID	1hSACoGWX3uxVkY8MYNNir	Height:	0	Occupant	1
Revit Level	PENTHOUSE	Perimeter:	82.83	Revit Model	UWEC-HOK-AR
		Feasibility NSF	400	Revit Sync Date	2021-04-27
				Space Type	Research-Specialty Lab
				UWEC FICM Number	580 - Greenhouse
				Science	BIO-7 - Botany
				Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☑
Other:	☐

WALL PROTECTION
Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☑
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE
Applied	☐
Integral	☑
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☑ Greenhouse Structure
Other:	☐

DOOR 1
Size:	3'-6" x 8'-0"
Type:	Special Hardware/ Seal
Material:	Metal

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
Minimum ceiling height 13'-0"
Tempered glass walls and roof

Room Function Number: 01.580.0009

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☐
Wall Shelves	☐
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☑
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

stainless steel bench top for work plus additional shelving units for storage

CASEWORK MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☑
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☑
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

normal environment plus ability to disperse heat: 8000btu x 2 units

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

hook up and draining water a 1" drain with tubing is provided underneath chamber, located in the center.
do you think floor drain needs a soil trap? if used for root or pot washing, a drain might be good.
humidity system: must be supplied with reverse osmosis water. water resistivity must be between 0.01-0.02 Med ohm-cm. maximum water usage to maintain specified levels is 1 liters/hr

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☑ No. of Outlets: 2
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

electrical services: 120-1AE-60Hz-2 wire plus ground-30A service

Room Function Number: 01.580.0009

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.580.0010

Room Name	Greenhouse Corridor
Function Location:	01 - Biology / 580 - Greenhouse
Room Data Status	From RL_GRHS-A
Last modified	Thelen, Jessica, 3/1/2021 12:22 PM

Categorization

Room Number
User Room Number

Areas

Programmed	720.00
Actual	0.00
Height:	0
Perimeter:	0

Groups / Classifications / Status

Borrowed Light	Light
Occupant	0
Space Type	Research-Specialty Lab
UWEC FICM Number	580 - Greenhouse
Science	BIO-7 - Botany
Activity	RESCH - Research

USER DATA

ROOM DATA

Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS

Not sure what is meant by corridor. Teaching greenhouse of at least 600sf. Room for multiple growth chambers.

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☑
Other:	☐

WALL PROTECTION

Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☑
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☐
Integral	☑

Material:

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☑

Greenhouse Structure

Other: ☐

DOOR 1

Size: 3'-6" x 8'-0"
Type: Special
Hardware/ Seal
Material: Metal

DOOR 2

Size:
Type:
Material:

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

Minimum ceiling height 13'-0"
Tempered glass walls and roof

Room Function Number: 01.580.0010

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☐
Wall Shelves	☐
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☑
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

adjustable height and movable growing benches

CASEWORK MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☑
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☑
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 01.580.0010

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 01.580.0010

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 01.580.0017

Room Name	Walk in Growth Chamber
Function Location:	01 - Biology / 580 - Greenhouse
Room Data Status	From RL_GRHS-F
Last modified	Niewoehner, Daniel, 4/22/2021 12:21 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	100.00	Borrowed Light	No Light
User Room Number		Actual	99.00	From Model Phase	New Construction
IFCID	1hSACoGWX3uxVkY8MYNNim	Height:	0	Occupant	0
Revit Level	PENTHOUSE	Perimeter:	40.5	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-27
				Space Type	Research-Specialty Lab
				UWEC FICM Number	580 - Greenhouse
				Science	BIO-7 - Botany
				Activity	RESCH - Research

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS
This chamber will initially be used for Arabidopsis Thaliana (a relatively short and small plant) but could be used down the line for other species. A typical growth chamber from a company should have some flexibility (changes in shelving location, distance to the lights, airflow patterns)

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☑
Other:	☐

WALL PROTECTION
Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☑
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE
Applied	☐
Integral	☑
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☑ Greenhouse Structure
Other:	☐

DOOR 1
Size:	3'-6" x 8'-0"
Type:	Special Hardware/ Seal
Material:	Metal

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
A walk-in chamber from a company will be designed with drain pans or other features to handle water spillage when watering plants. Floor should be able to get wet, and probably have a floor drain.

Room Function Number: 01.580.0017

CASEWORK

CASEWORK TYPE

- Fixed Casework ☐
- Movable Casework ☐
- Wall Cabinets ☐
- Wall Shelves ☐
- Lockable Cabinets ☐
- Other: ☐

BENCHTOP MATERIAL

- Epoxy ☐
- Wood ☐
- Stainless Steel ☐
- Plastic Laminate ☐
- Phenolic ☐
- Other: ☐

COMMENTS

A walk-in chamber will have shelving, lights, and control systems built in. The chamber itself only needs lights and shelving for growing plants. Other shelving/tables/ storage should be out in another adjoining space or room.

CASEWORK MATERIAL

- Metal ☐
- Wood ☐
- Stainless Steel ☐
- Other: ☐

SHELVING MATERIAL

- Metal ☐
- Wood ☐
- Stainless Steel ☐
- Glass ☐
- Other: ☐

EXHAUST DEVICES

- Benchtop Fume Hoods: ☐
- Walk-in Fume Hoods: ☐
- Radioisotope Hoods: ☐
- Perchloric Hoods: ☐
- Bio Safety Cabs: ☐
- Vert Lam Flow Hoods: ☐
- Hori Lam Flow Hoods: ☐
- Polypropylene Hoods: ☐
- Canopy Hoods: ☐
- ADA Hoods: ☐
- Point Exhaust: ☐
- Other: ☐

COMMENTS

EQUIPMENT

- Item 1 ☐
- Item 2 ☐
- Item 3 ☐
- Item 4 ☐
- Item 5 ☐
- Item 6 ☐
- Item 7 ☐
- Item 8 ☐
- Item 9 ☐
- Item 10 ☐

COMMENTS

Room Function Number: 01.580.0017

HVAC

ENVIRONMENT

Design Temp Cooling:	95 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	59 F Range +/-: 0
Relative Humidity Heating:	40 % Range +/-: 5
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

A typical walk-in growth chamber is going to have a temperature range of 15C-35C (lights on) and 10C-35C (lights off). Optimal temperature for Arabidopsis is 23-25C.
Humidity control is desired. Arabidopsis does well at 40-50% humidity. The cooling unit will require chilled water. If the building has its own chilled water production this can be piped in. Conviron could also provide a chiller unit for the chamber.

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

A sink is not needed in the growth room/ chamber itself, but a large sink with a soil trap is needed for pot and flat washing. This may be part of the facilities for the greenhouse.
Refrigeration systems may be water-cooled. The growth area needs to be in close proximity to a faucet that a hose can be attached to for watering.

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Would be nice for the room/chamber to have a few internal standard 100V plugs if we needed to power something inside it.
May require separate electric service for the condensing unit.
Fluorescent, halogen, or incandescent lights are still most common in growth chambers, but LED lights might be an option. Optimal lighting for Arabidopsis is 130-150 umole/m2/sec. A walk-in chamber like the Conviron MTPS72 Flex-3 will provide up to 500-1000 umole/m2/sec intensity, but can be dimmable. I would prefer dimmable as this increases flexibility for future use. The lights should be fully controllable for the photoperiod.

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

Lockable. Key Card vs card reader not identified.

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

The sales representative from Conviron sent the following information for an MTPS144 walk-in chamber:
MTPS144 w/ Dimmable Canopies from 50-300 umols, Additive Humidity, Dehumidification:
Electrical: 120/208-3phase-60Hz, MOP: 50Amps
Heat Rejection: 60,000 BTU/H
Fresh Air Requirement: 100 cfm

This grow room/walk-in chamber should be in clos vacinity to facilities for planting, pot/flat washing, and soil storage. I assume such facilities will be located in the greenhouse complex. The space for other reach-in growth chambers should also be close to these facilities. For pest control reasons the door to this room/walk-in chamber should open to a very low-traffic area.

Selection

Room Group Type: UWEC FICM Number

Group: 210 - Class Laboratory, 220 - Open Laboratory, 250 - Research Laboratory , 255 - Research Laboratory Service, 570 - Animal Facilities, 575 - Animal Facilities Services, 580 - Greenhouse, 585 - Greenhouse Service, 215 - Class Laboratory Service, 225 - Open Laboratory Service

Room function: 02: Chemistry

Room Function Number: 02.210.0001

Room Name	Advanced Chemistry
Function Location:	02 - Chemistry / 210 - Class Laboratory
Room Data Status	From TL_ADCH-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:07 PM

Categorization	
Room Number	
User Room Number	
Course Number(s)	344, 420, 438, 444
IFCID	2n8vGMyaP8fwASZkHsKbjW
Revit Level	LEVEL 3

Areas	
Programmed	1,290.00
Actual	1,342.31
Height:	0
Perimeter:	147.33
Feasibility NSF	1,200

Groups / Classifications / Status	
Borrowed Light	Control
From Model Phase	New Construction
Occupant	16
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☑
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 8) Size: 72x36x84
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐

EXHAUST DEVICES

Point Exhaust: ☐
Other: ☐

COMMENTS

open to smaller hoods if it is more cost effective
clustering hoods together to maximize usable bench space

EQUIPMENT

Item 1 ☐
Item 2 ☐
Item 3 ☐
Item 4 ☐
Item 5 ☐
Item 6 ☐
Item 7 ☐
Item 8 ☐
Item 9 ☐
Item 10 ☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:
Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection: ☐
Other: ☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☑
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

CW on recirculation is ideal for hoods

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

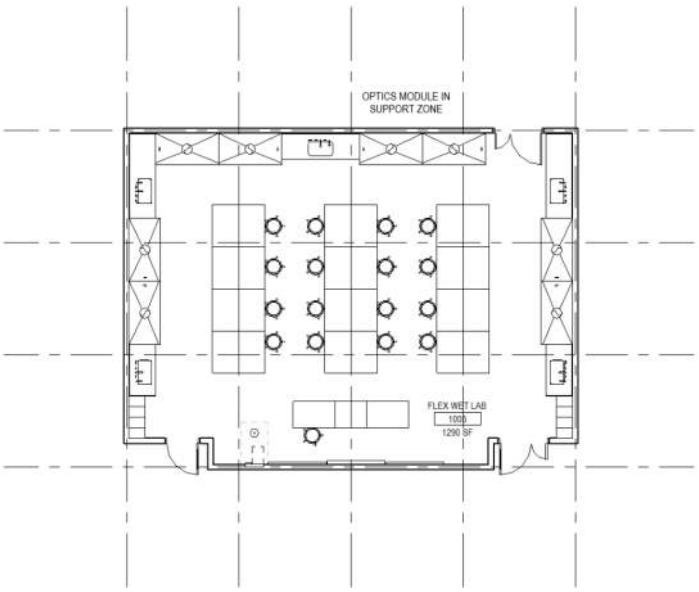
Projection	☑
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

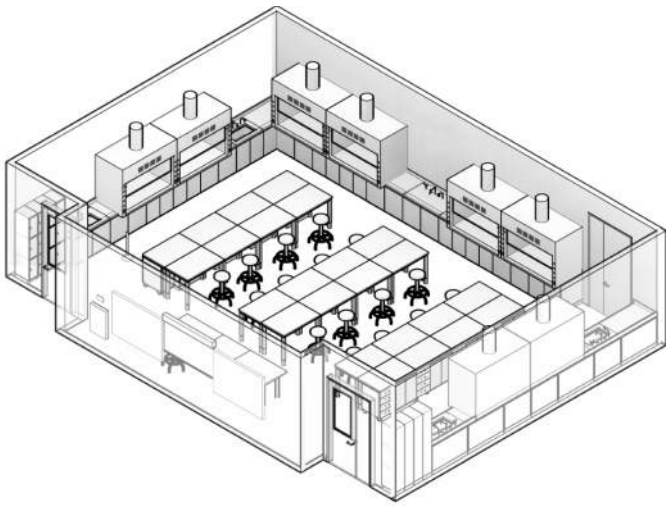
COMMENTS

simple projection may be more cost effective than a flat panel display

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS would like to see laser equipment in small isolated space





Room Function Number: 02.210.0003

Room Name	Analytical Chemistry
Function Location:	02 - Chemistry / 210 - Class Laboratory
Room Data Status	From TL_CHEM-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:07 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	115, 213, 344
IFCID	2n8vGMyaP8fwASZkHsKbjb
Revit Level	LEVEL 3

Areas

Programmed	1,290.00
Actual	1,376.79
Height:	0
Perimeter:	147.33
Feasibility NSF	1,200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.210.0003

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

drawers needed at wall and below hoods
cubbies or hooks for coats and backpacks
upper shelves and storage cabinets
one bench should be ADA

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 4) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

Only 1 fumehood needed for 02.210.0011
1 fumehood on same wall as whiteboard

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

small equipment will be placed on the benches for some experiments

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☑ (1)
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

space for fire blanket

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.210.0003

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

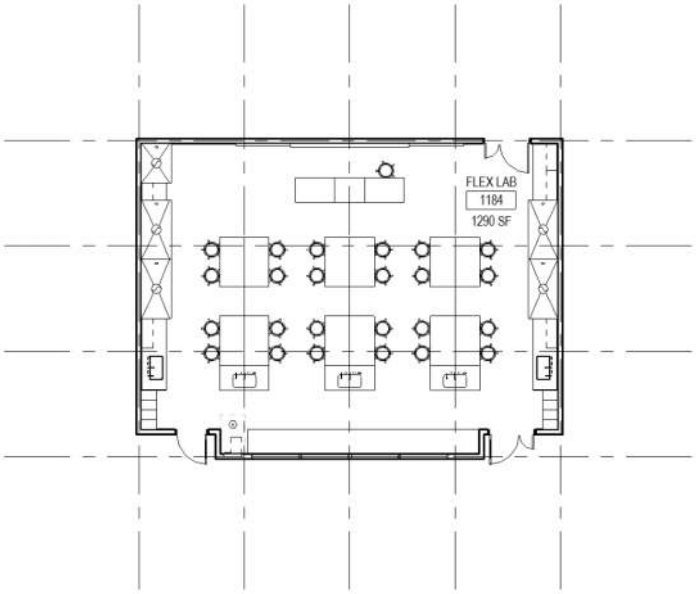
AUDIO VISUAL

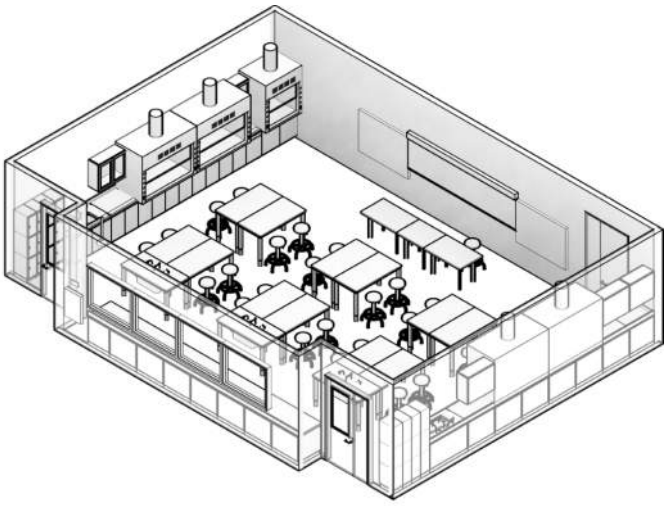
Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☑
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Name	Biochemistry Lab
Function Location:	02 - Chemistry / 210 - Class Laboratory
Room Data Status	Unique
Last modified	Thelen, Jessica, 4/13/2021 5:59 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	1,290.00	Borrowed Light	Control
User Room Number		Actual	1,328.25	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbjg	Height:	0	Occupant	24
Revit Level	LEVEL 3	Perimeter:	147.33	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-05
				UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.210.0005

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐	
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☑	(Qty: 0)
Vert Lam Flow Hoods:	☑	(Qty: 0)
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☑	(Qty: 0)
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

air conditioning and low humidity required

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (3)
ADA	☑ (0)
Scullery	☐
Epoxy	☑ (0)
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☑
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

2-3 sinks

fire blanket required

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☑
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.210.0005

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

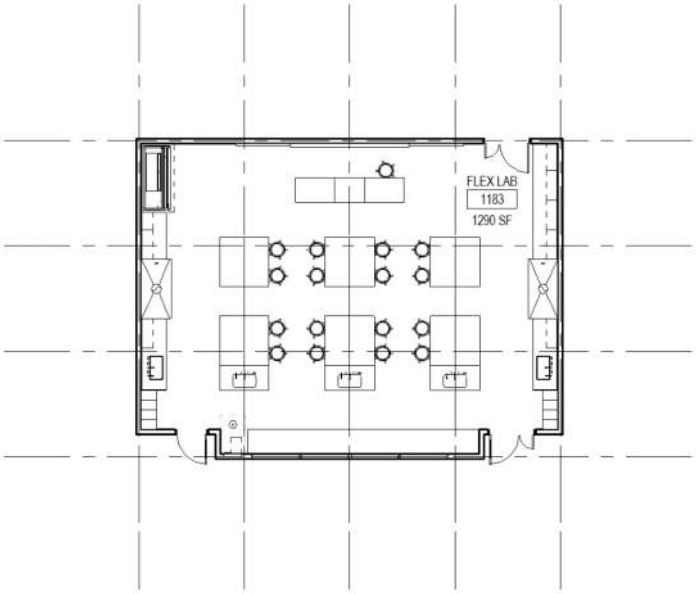
AUDIO VISUAL

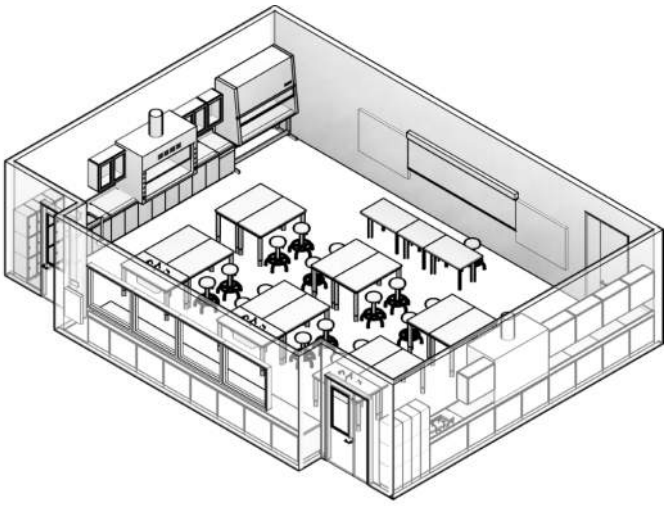
Projection	☑
Flat Panel Display	☑
Camera	☑
Microphone	☑
Distance Learning	☑
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.210.0008

Room Name	General Chemistry - 1
Function Location:	02 - Chemistry / 210 - Class Laboratory
Room Data Status	From TL_CHEM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:11 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	1,290.00	Borrowed Light	Control
User Room Number		Actual	1,376.79	From Model Phase	New Construction
Course Number(s)	106, 109	Height:	0	Occupant	24
IFCID	2H7KJxM0P4MBX0bmoYRihn	Perimeter:	147.33	Revit Model	UWEC-HOK-AR
Revit Level	LEVEL 1	Feasibility NSF	1,200	Revit Sync Date	2021-04-05
				Space Type	Education-Teaching Lab
				UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.210.0008

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

drawers around benchtops at wall and below hoods
cubbies or hooks for coats and backpacks
upper cabinets and shelves
one bench to be ADA

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☑	Demonstration Hood (Qty: 1) Size: 48x36x84

COMMENTS

Demonstration Hood to be on same wall as whiteboard

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Small equipment will be laid on benchtop temporarily during some experiments.

HVAC

ENVIRONMENT

Design Temp Cooling:	75 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☑ (1)
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

space for fire blanket

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.210.0008

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

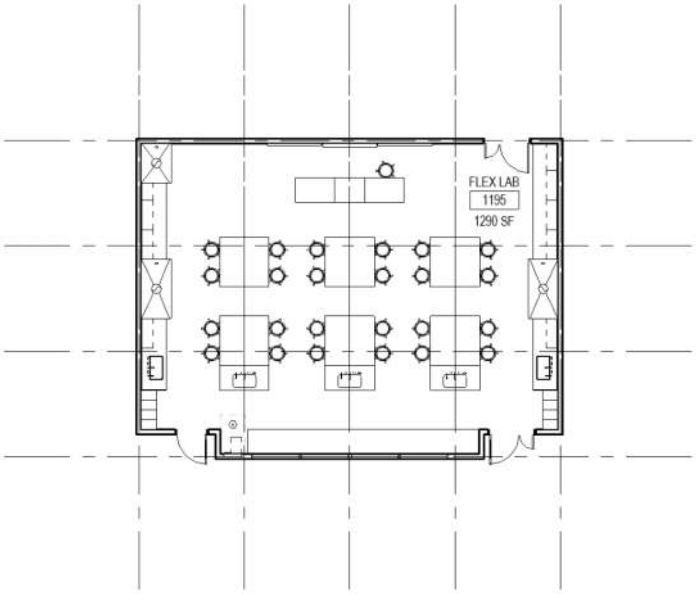
AUDIO VISUAL

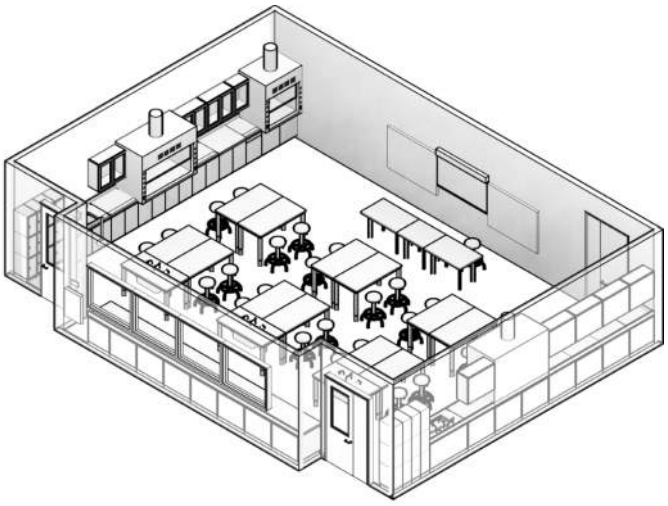
Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☑
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.210.0009

Room Name	General Chemistry - 2
Function Location:	02 - Chemistry / 210 - Class Laboratory
Room Data Status	From TL_CHEM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:11 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	1,290.00	Borrowed Light	Control
User Room Number		Actual	1,342.31	From Model Phase	New Construction
Course Number(s)	106, 109	Height:	0	Occupant	24
IFCID	2H7KJxM0P4MBX0bmoYRihy	Perimeter:	147.33	Revit Model	UWEC-HOK-AR
Revit Level	LEVEL 1	Feasibility NSF	1,200	Revit Sync Date	2021-04-05
				Space Type	Education-Teaching Lab
				UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.210.0009

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

drawers around benchtops at wall and below hoods
cubbies or hooks for coats and backpacks
upper cabinets and shelves
one bench to be ADA

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☑	Demonstration Hood (Qty: 1) Size: 48x36x84

COMMENTS

Demonstration Hood to be on same wall as whiteboard

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Small equipment will be laid on benchtop temporarily during some experiments.

HVAC

ENVIRONMENT

Design Temp Cooling:	75 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☑ (1)
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

space for fire blanket

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

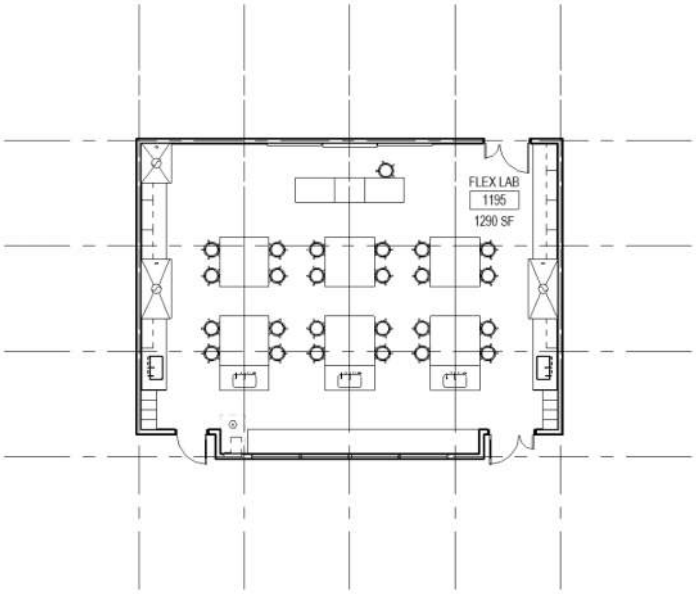
AUDIO VISUAL

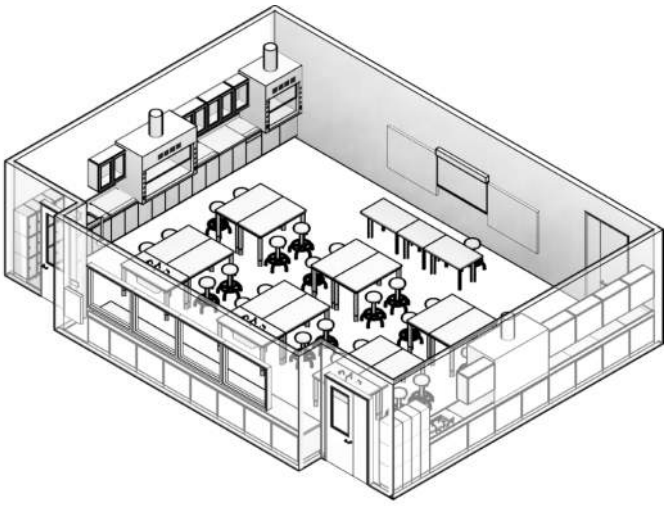
Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☑
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.210.0010

Room Name	General Chemistry - 3
Function Location:	02 - Chemistry / 210 - Class Laboratory
Room Data Status	From TL_CHEM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:11 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	1,290.00	Borrowed Light	Control
User Room Number		Actual	1,376.79	From Model Phase	New Construction
Course Number(s)	106, 109	Height:	0	Occupant	24
IFCID	2H7KJxM0P4MBX0bmoYRihx	Perimeter:	147.33	Revit Model	UWEC-HOK-AR
Revit Level	LEVEL 1	Feasibility NSF	1,200	Revit Sync Date	2021-04-05
				Space Type	Education-Teaching Lab
				UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

drawers around benchtops at wall and below hoods
cubbies or hooks for coats and backpacks
upper cabinets and shelves
one bench to be ADA

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☑	Demonstration Hood (Qty: 1) Size: 48x36x84

COMMENTS

Demonstration Hood to be on same wall as whiteboard

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Small equipment will be laid on benchtop temporarily during some experiments.

HVAC

ENVIRONMENT

Design Temp Cooling:	75 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☑ (1)
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

space for fire blanket

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

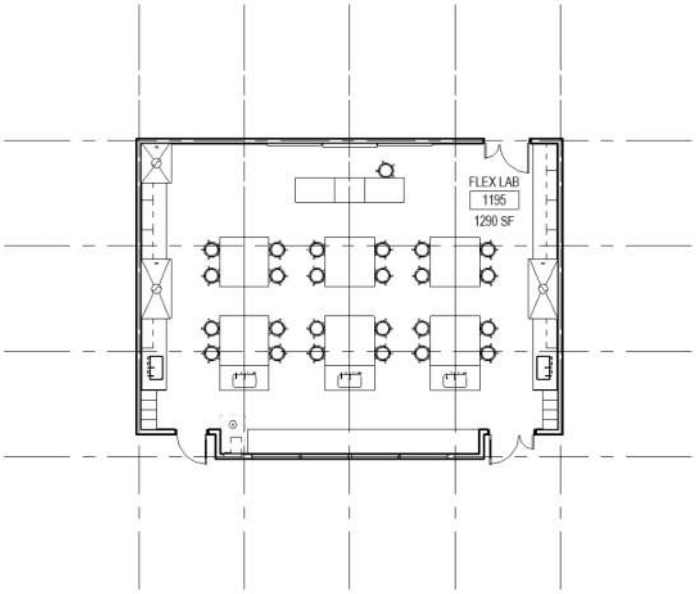
AUDIO VISUAL

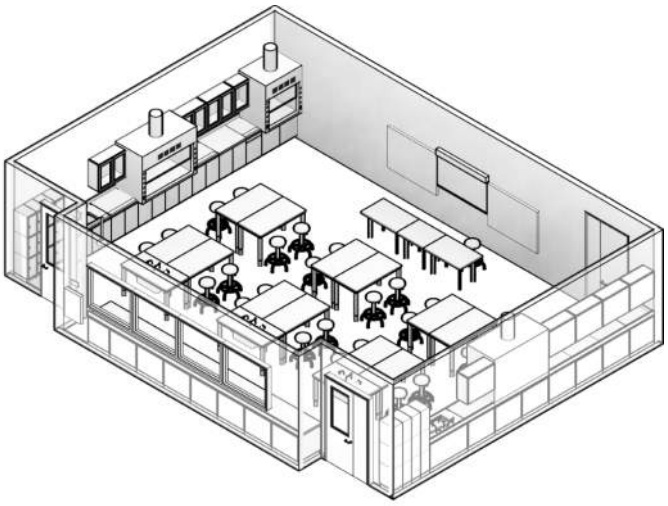
Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☑
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.210.0011

Room Name	General Chemistry - 4
Function Location:	02 - Chemistry / 210 - Class Laboratory
Room Data Status	From TL_CHEM-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:07 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	1,290.00	Borrowed Light	Control
User Room Number		Actual	1,342.31	From Model Phase	New Construction
Course Number(s)	325, 326	Height:	0	Occupant	24
IFCID	2H7KJxM0P4MBX0bmoYRihc	Perimeter:	147.33	Revit Model	UWEC-HOK-AR
Revit Level	LEVEL 1	Feasibility NSF	1,200	Revit Sync Date	2021-04-05
				Space Type	Education-Teaching Lab
				UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.210.0011

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

drawers needed at wall and below hoods
cubbies or hooks for coats and backpacks
upper shelves and storage cabinets
one bench should be ADA

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 4) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

Only 1 fumehood needed for 02.210.0011
1 fumehood on same wall as whiteboard

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

small equipment will be placed on the benches for some experiments

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☑ (1)
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

space for fire blanket

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.210.0011

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

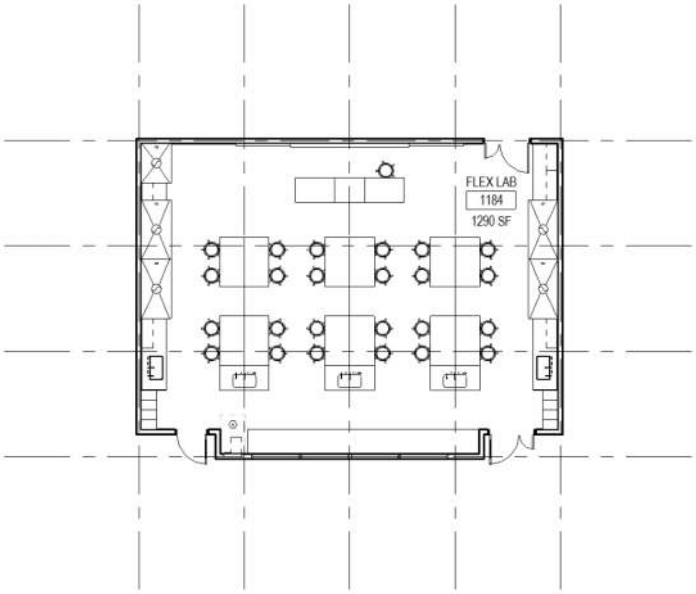
AUDIO VISUAL

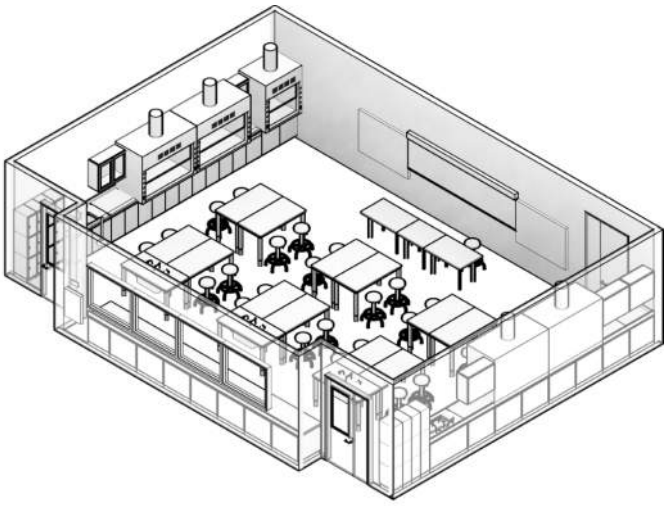
Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☑
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.210.0017

Room Name	Organic Chemistry
Function Location:	02 - Chemistry / 210 - Class Laboratory
Room Data Status	From TL_ORG-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	325, 326
IFCID	2n8vGMyaP8fwASZkHsKbjc
Revit Level	LEVEL 3

Areas

Programmed	1,680.00
Actual	1,716.35
Height:	0
Perimeter:	169
Feasibility NSF	1,800

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.210.0017

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 12) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☑	(Qty: 1)
Point Exhaust:	☐	
Other:	☑	Instruction Hood (Qty: 1) Size: 72x36x84

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑ Fume Hood
Vacuum (VAC):	☑ Fume Hood
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Fume Hood
Chilled Water (CW S/R):	☑ Fume Hood
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

3-4 sinks

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.210.0017

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

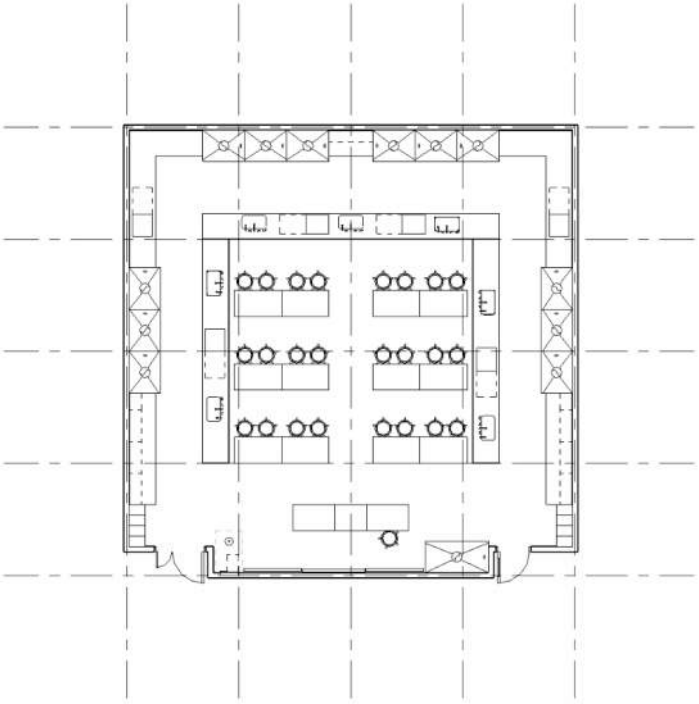
AUDIO VISUAL

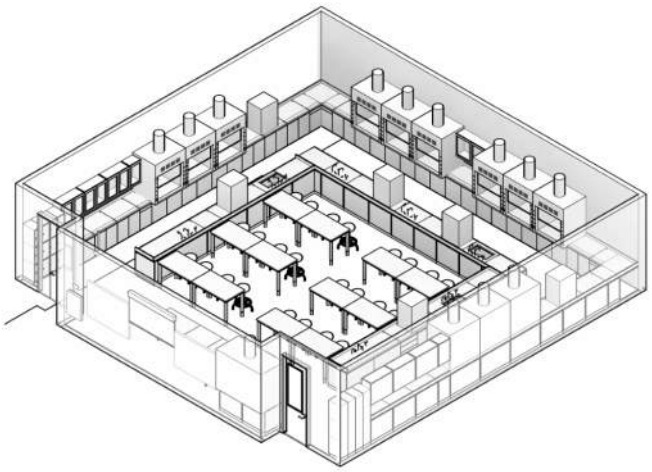
Projection	☑
Flat Panel Display	☑
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.215.0001

Room Name	Advanced Teaching Prep
Function Location:	02 - Chemistry / 215 - Class Laboratory Service
Room Data Status	From TL_SPRT-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	171.00	Borrowed Light	Control
User Room Number		Actual	213.54	From Model Department	Chemistry
IFCID	2n8vGMyaP8fwASZkHsKbkz	Height:	0	From Model Phase	New Construction
Revit Level	LEVEL 3	Perimeter:	61.83	Occupant	1
		Feasibility NSF	120	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-29
				Space Type	Education-Teaching Lab Support
				UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.215.0001

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.215.0001

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.215.0002

Room Name	Analytical Teaching Prep
Function Location:	02 - Chemistry / 215 - Class Laboratory Service
Room Data Status	From TL_SPRT-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	2n8vGMyaP8fwASZkHsKbkd
Revit Level	LEVEL 3

Areas

Programmed	171.00
Actual	220.38
Height:	0
Perimeter:	62.5
Feasibility NSF	120

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Chemistry
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Education-Teaching Lab Support
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.215.0002

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.215.0002

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.215.0003

Room Name	Biochemistry Teaching Prep
Function Location:	02 - Chemistry / 215 - Class Laboratory Service
Room Data Status	From TL_SPRT-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	171.00	Borrowed Light	Control
User Room Number		Actual	175.50	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbgU	Height:	0	Occupant	1
Revit Level	LEVEL 3	Perimeter:	57	Revit Model	UWEC-HOK-AR
		Feasibility NSF	120	Revit Sync Date	2021-04-06
				Space Type	Education-Teaching Lab Support
				UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.215.0003

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.215.0003

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☑
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.215.0004

Room Name	Chemistry Prep & Stock
Function Location:	02 - Chemistry / 215 - Class Laboratory Service
Room Data Status	From TL_SPRT-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	2,000.00	Borrowed Light	Control
User Room Number		Actual	1,986.79	From Model Phase	New Construction
IFCID	2H7KJxM0P4MBX0bmoYRihb	Height:	0	Occupant	1
Revit Level	LEVEL 1	Perimeter:	234.83	Revit Model	UWEC-HOK-AR
		Feasibility NSF	2,000	Revit Sync Date	2021-04-27
				Space Type	Education-Teaching Lab Support
				UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.215.0004

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.215.0004

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.215.0006

Room Name	Chemistry Storage
Function Location:	02 - Chemistry / 215 - Class Laboratory Service
Room Data Status	From TL_SPRT-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	400.00	Borrowed Light	Control
User Room Number		Actual	213.54	From Model Department	Chemistry
IFCID	2n8vGMyaP8fwASZkHsKbku	Height:	0	From Model Phase	New Construction
Revit Level	LEVEL 3	Perimeter:	61.83	Occupant	1
		Feasibility NSF	400	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-29
				Space Type	Education-Teaching Lab Support
				UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.215.0006

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.215.0006

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.215.0008

Room Name	Advanced Chemistry - CoLab
Function Location:	02 - Chemistry / 215 - Class Laboratory Service
Room Data Status	From TL_SPRT-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	0QMyFAJLnCoQ7vn9EgC85t
Revit Level	LEVEL 3

Areas

Programmed	645.00
Actual	0.00
Height:	0
Perimeter:	0
Feasibility NSF	600

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab Support
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.215.0008

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.215.0008

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.215.0009

Room Name	Analytical Chemistry - CoLab
Function Location:	02 - Chemistry / 215 - Class Laboratory Service
Room Data Status	From TL_SPRT-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	645.00	Borrowed Light	Control
User Room Number		Actual	0.00	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC85p	Height:	0	Occupant	24
Revit Level	LEVEL 3	Perimeter:	0	Revit Model	UWEC-HOK-AR
		Feasibility NSF	600	Revit Sync Date	2021-04-05
				Space Type	Education-Teaching Lab Support
				UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.215.0009

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.215.0009

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.215.0010

Room Name	Biochemistry Lab - CoLab
Function Location:	02 - Chemistry / 215 - Class Laboratory Service
Room Data Status	From TL_SPRT-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	171.00	Borrowed Light	Control
User Room Number		Actual	175.50	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbgO	Height:	0	Occupant	0
Revit Level	LEVEL 3	Perimeter:	57	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-06
				Space Type	Education-Teaching Lab Support
				UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.215.0010

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.215.0010

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.215.0011

Room Name	General Chemistry - CoLab
Function Location:	02 - Chemistry / 215 - Class Laboratory Service
Room Data Status	From TL_SPRT-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization	
Room Number	
User Room Number	

Areas	
Programmed	0.00
Actual	0.00
Height:	0
Perimeter:	0
Feasibility NSF	600

Groups / Classifications / Status	
Borrowed Light	Control
Occupant	24
Space Type	Education-Teaching Lab Support
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.215.0011

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.215.0011

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.215.0012

Room Name	General Chemistry - CoLab (Didactic)
Function Location:	02 - Chemistry / 215 - Class Laboratory Service
Room Data Status	From TL_SPRT-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	645.00	Borrowed Light	Control
User Room Number		Actual	0.00	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC85$	Height:	0	Occupant	24
Revit Level	LEVEL 3	Perimeter:	0	Revit Model	UWEC-HOK-AR
		Feasibility NSF	600	Revit Sync Date	2021-04-05
				Space Type	Education-Teaching Lab Support
				UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS
Comments assuming this is a co-lab connected to one of the General Chemistry Labs

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.215.0012

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

floor space for cart storage needed
small desk space would be nice

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 1)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

hood for prep

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

gas, water, and vacuum preferred in hood

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.215.0012

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.215.0013

Room Name	General Chemistry - CoLab (Shared Equipment)
Function Location:	02 - Chemistry / 215 - Class Laboratory Service
Room Data Status	From TL_SPRT-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	645.00	Borrowed Light	Control
User Room Number		Actual	0.00	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC85x	Height:	0	Occupant	24
Revit Level	LEVEL 3	Perimeter:	0	Revit Model	UWEC-HOK-AR
		Feasibility NSF	600	Revit Sync Date	2021-04-05
				Space Type	Education-Teaching Lab Support
				UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS
Comments assuming this is a co-lab connected to one of the General Chemistry Labs

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.215.0013

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

floor space for cart storage needed
small desk space would be nice

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 1)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

hood for prep

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.215.0013

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

gas, water, and vacuum preferred in hood

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.215.0013

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.215.0014

Room Name	General Chemistry - Prep Area
Function Location:	02 - Chemistry / 215 - Class Laboratory Service
Room Data Status	From TL_SPRT-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	342.00	Borrowed Light	Control
User Room Number		Actual	0.00	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC85d	Height:	0	Occupant	0
Revit Level	LEVEL 3	Perimeter:	0	Revit Model	UWEC-HOK-AR
		Feasibility NSF	342	Revit Sync Date	2021-04-05
				Space Type	Education-Teaching Lab Support
				UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS
Comments assuming this is a co-lab connected to one of the General Chemistry Labs

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.215.0014

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

floor space for cart storage needed
small desk space would be nice

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 1)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

hood for prep

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

gas, water, and vacuum preferred in hood

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.215.0014

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.215.0016

Room Name	Chemistry Data Processing
Function Location:	02 - Chemistry / 215 - Class Laboratory Service
Room Data Status	Unique
Last modified	Thelen, Jessica, 4/13/2021 6:04 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number	900	Programmed	720.00	Borrowed Light	Control
User Room Number		Actual	776.81	From Model Phase	New Construction
Name on Drawing	RM	Height:	0	Occupant	24
Revit Level	LEVEL 3	Perimeter:	120.16	Revit Model	UWEC-HOK-AR
IFCID	1iQD8TJoTA3gukLIJZ15mD	Feasibility NSF	720	Revit Sync Date	2021-04-27
				UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.215.0016

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Computers and monitors (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐			
Item 3	☐			
Item 4	☐			
Item 5	☐			
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

Room Function Number: 02.215.0016

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

Air conditioning and low humidity is required

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.215.0016

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☑
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS	room should have an instructor's podium and a large white board next to standard electronic means of instruction

Room Function Number: 02.250.0001

Room Name	Analytical Wet Bench Research - Flex Room
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_CHEM-CS
Last modified	Niewoehner, Daniel, 4/22/2021 12:08 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	0.00	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC85I	Height:	0	Occupant	4
Revit Level	LEVEL 3	Perimeter:	0	Revit Model	UWEC-HOK-AR
		Feasibility NSF	57	Revit Sync Date	2021-04-05
				Space Type	Education-Teaching Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.250.0001

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

some PIs have major large equipment that needs dedicated space

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0001

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.250.0002

Room Name	Analytical Wet Bench Research - Flex Room
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_CHEM-CS
Last modified	Niewoehner, Daniel, 4/22/2021 12:08 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	0.00	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC85h	Height:	0	Occupant	4
Revit Level	LEVEL 3	Perimeter:	0	Revit Model	UWEC-HOK-AR
		Feasibility NSF	57	Revit Sync Date	2021-04-05
				Space Type	Education-Teaching Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.250.0002

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

some PIs have major large equipment that needs dedicated space

Room Function Number: 02.250.0002

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0002

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.250.0003

Room Name	Analytical Wet Bench Research - Flex Room
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_CHEM-CS
Last modified	Niewoehner, Daniel, 4/22/2021 12:08 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	0.00	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC85N	Height:	0	Occupant	4
Revit Level	LEVEL 3	Perimeter:	0	Revit Model	UWEC-HOK-AR
		Feasibility NSF	57	Revit Sync Date	2021-04-05
				Space Type	Education-Teaching Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.250.0003

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

some PIs have major large equipment that needs dedicated space

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0003

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.250.0004

Room Name	Analytical Wet Bench Research - Flex Room
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_CHEM-CS
Last modified	Niewoehner, Daniel, 4/22/2021 12:08 PM

Categorization

Room Number	
User Room Number	
IFCID	0QMyFAJLnCoQ7vn9EgC85J
Revit Level	LEVEL 3

Areas

Programmed	57.00
Actual	0.00
Height:	0
Perimeter:	0
Feasibility NSF	57

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	4
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.250.0004

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

some PIs have major large equipment that needs dedicated space

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0004

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.250.0005

Room Name	Analytical Wet Bench Research - Open Lab
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_ANCHEM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:07 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	464.24	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbJr	Height:	0	Occupant	4
Revit Level	LEVEL 3	Perimeter:	89.83	Revit Model	UWEC-HOK-AR
		Feasibility NSF	443	Revit Sync Date	2021-04-05
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.250.0005

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 3) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

2-3 hoods

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

several PIs have large major instrumentation that needs dedicated space

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0005

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

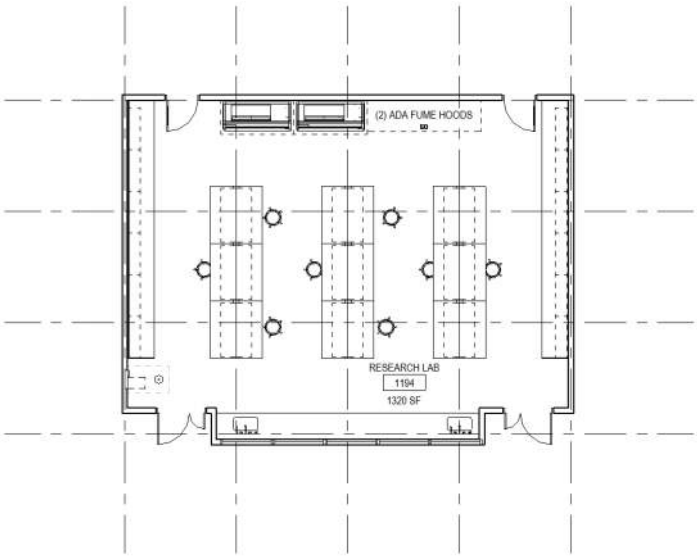
AUDIO VISUAL

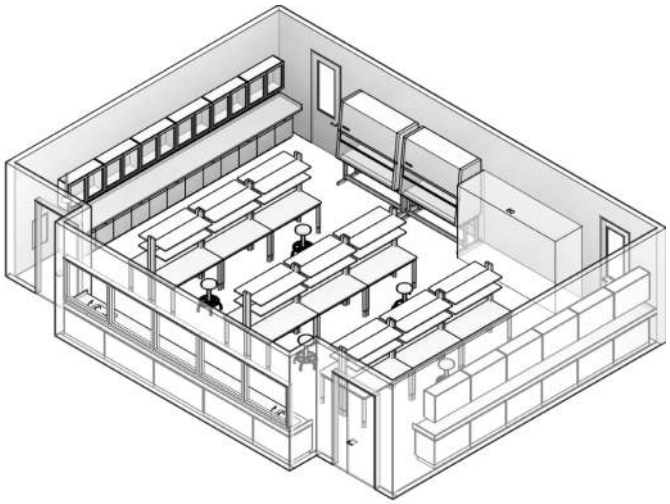
Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.250.0006

Room Name	Analytical Wet Bench Research - Open Lab
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_ANCHEM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:07 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	445.67	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbjB	Height:	0	Occupant	4
Revit Level	LEVEL 3	Perimeter:	91	Revit Model	UWEC-HOK-AR
		Feasibility NSF	443	Revit Sync Date	2021-04-05
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.250.0006

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 3) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

2-3 hoods

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

several PIs have large major instrumentation that needs dedicated space

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0006

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

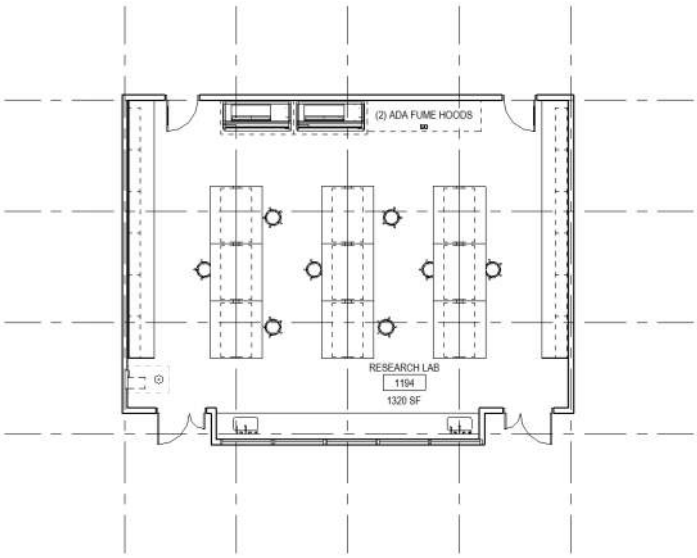
AUDIO VISUAL

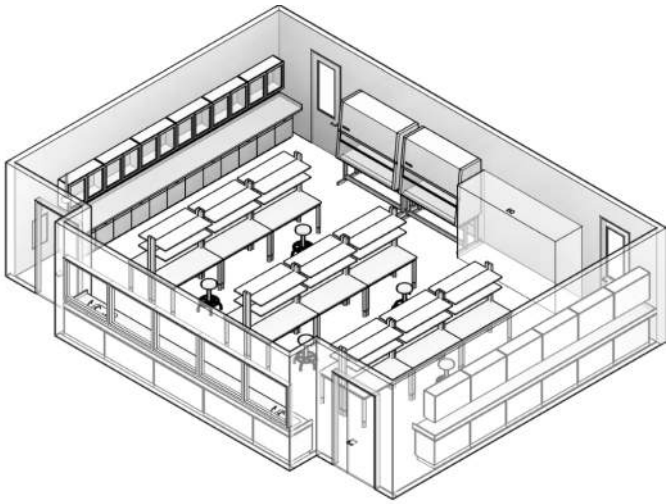
Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.250.0007

Room Name	Analytical Wet Bench Research - Open Lab
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_ANCHEM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:07 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	450.97	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbjr	Height:	0	Occupant	4
Revit Level	LEVEL 3	Perimeter:	91.33	Revit Model	UWEC-HOK-AR
		Feasibility NSF	443	Revit Sync Date	2021-04-05
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.250.0007

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 3) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

2-3 hoods

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

several PIs have large major instrumentation that needs dedicated space

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0007

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

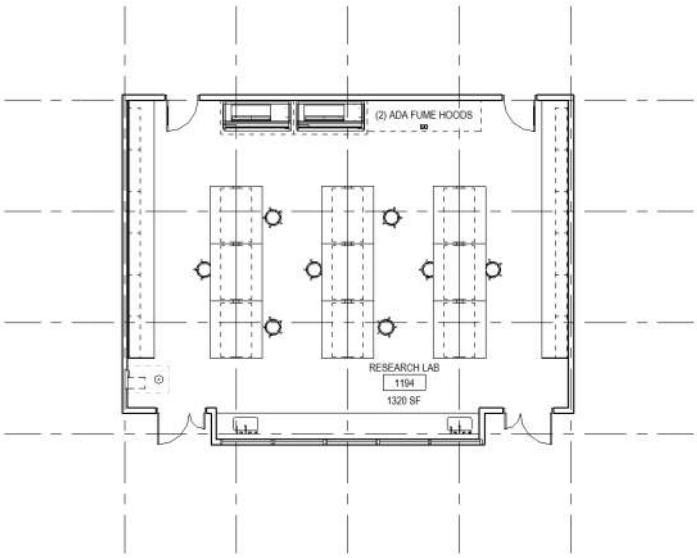
AUDIO VISUAL

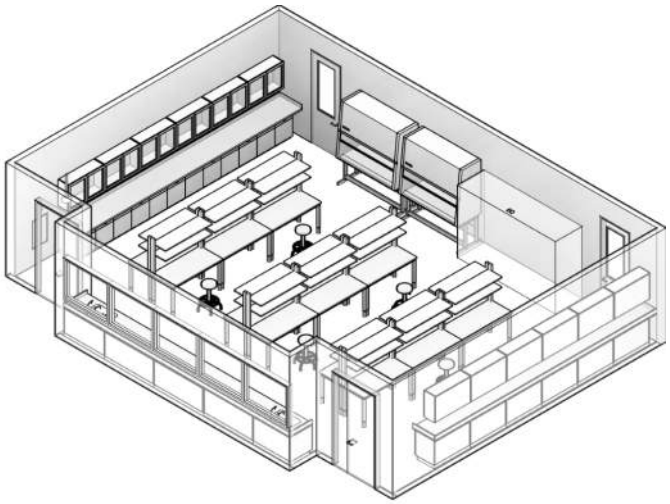
Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.250.0008

Room Name	Analytical Wet Bench Research - Open Lab
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_ANCHEM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:07 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	445.67	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbjs	Height:	0	Occupant	4
Revit Level	LEVEL 3	Perimeter:	91	Revit Model	UWEC-HOK-AR
		Feasibility NSF	443	Revit Sync Date	2021-04-05
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.250.0008

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 3) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

2-3 hoods

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

several PIs have large major instrumentation that needs dedicated space

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0008

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

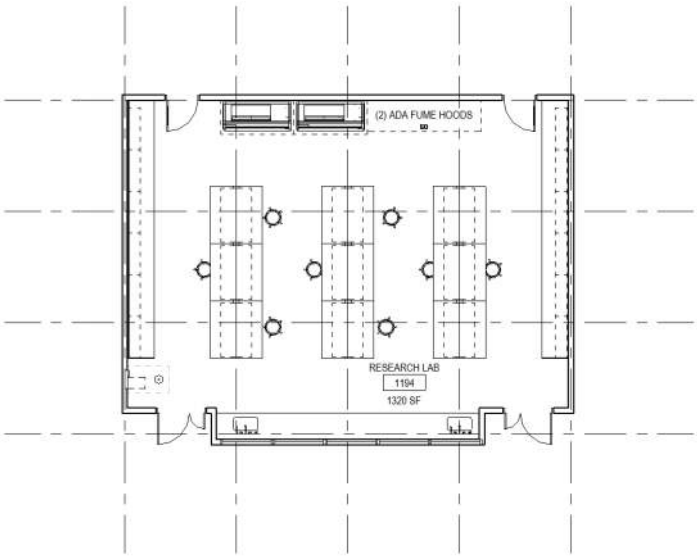
AUDIO VISUAL

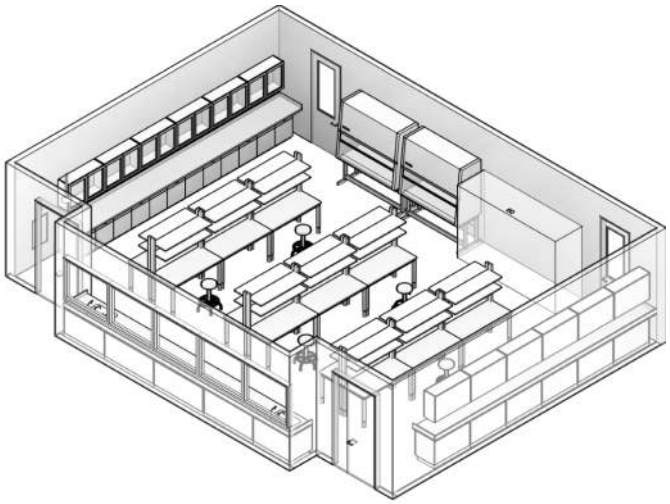
Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.250.0009

Room Name	Biochemistry Wet Bench Research - Flex Room
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_BIOCHEM-SL
Last modified	Niewoehner, Daniel, 4/22/2021 12:09 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	60.00	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbfs	Height:	0	Occupant	4
Revit Level	LEVEL 3	Perimeter:	34	Revit Model	UWEC-HOK-AR
		Feasibility NSF	57	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.250.0009

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0009

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.250.0010

Room Name	Biochemistry Wet Bench Research - Flex Room
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_BIOCHEM-SL
Last modified	Niewoehner, Daniel, 4/22/2021 12:09 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	57.00	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbfr	Height:	0	Occupant	4
Revit Level	LEVEL 3	Perimeter:	33.5	Revit Model	UWEC-HOK-AR
		Feasibility NSF	57	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.250.0010

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0010

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.250.0011

Room Name	Biochemistry Wet Bench Research - Flex Room
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_BIOCHEM-SL
Last modified	Niewoehner, Daniel, 4/22/2021 12:09 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	60.00	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbfm	Height:	0	Occupant	4
Revit Level	LEVEL 3	Perimeter:	34	Revit Model	UWEC-HOK-AR
		Feasibility NSF	57	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.250.0011

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0011

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0011

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.250.0012

Room Name	Biochemistry Wet Bench Research - Flex Room
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_BIOCHEM-SL
Last modified	Niewoehner, Daniel, 4/22/2021 12:09 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	57.00	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbf$	Height:	0	Occupant	4
Revit Level	LEVEL 3	Perimeter:	33.5	Revit Model	UWEC-HOK-AR
		Feasibility NSF	57	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.250.0012

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0012

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0012

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.250.0013

Room Name	Biochemistry Wet Bench Research - Open Lab
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_BIOCHEM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:09 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	664.12	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbaf	Height:	0	Occupant	4
Revit Level	LEVEL 3	Perimeter:	105.17	Revit Model	UWEC-HOK-AR
		Feasibility NSF	443	Revit Sync Date	2021-04-05
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.250.0013

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☑	(Qty: 1) Size: 78x36x84
Vert Lam Flow Hoods:	☑	(Qty: 1) Size: 78x36x84
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0013

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0013

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

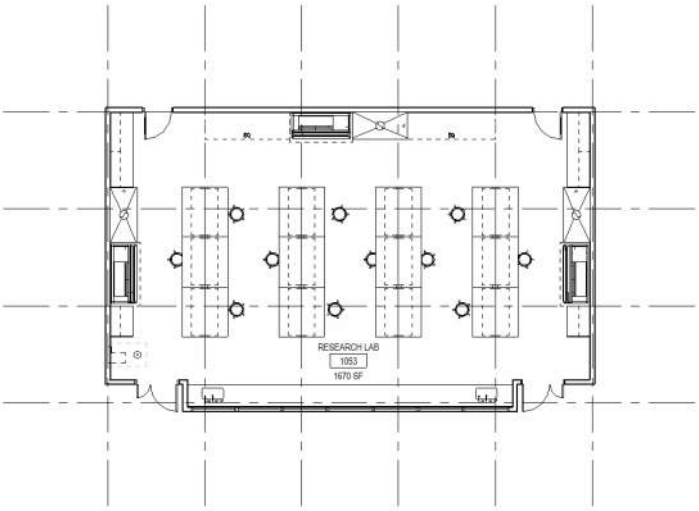
AUDIO VISUAL

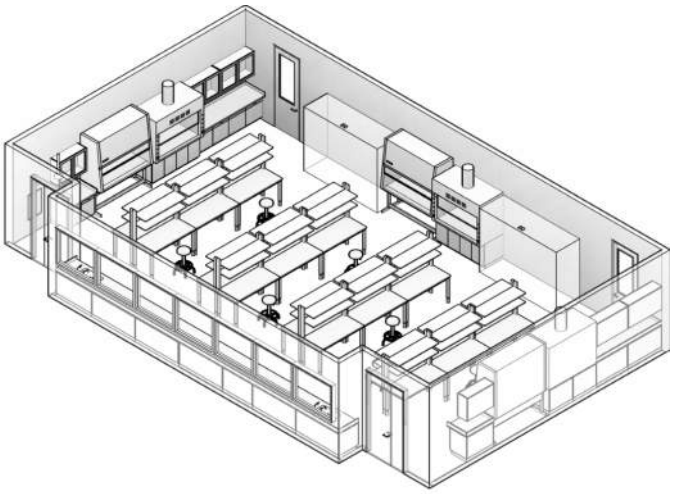
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.250.0014

Room Name	Biochemistry Wet Bench Research - Open Lab
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_BIOCHEM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:09 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	664.13	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbbK	Height:	0	Occupant	4
Revit Level	LEVEL 3	Perimeter:	105.17	Revit Model	UWEC-HOK-AR
		Feasibility NSF	443	Revit Sync Date	2021-04-05
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.250.0014

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☑	(Qty: 1) Size: 78x36x84
Vert Lam Flow Hoods:	☑	(Qty: 1) Size: 78x36x84
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0014

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0014

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

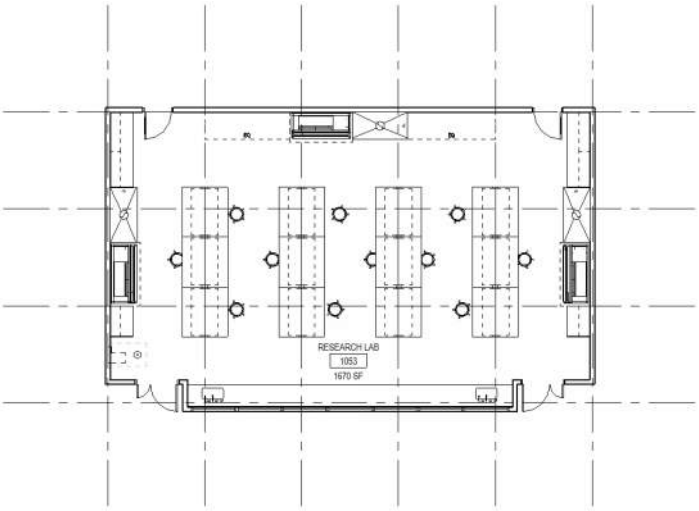
AUDIO VISUAL

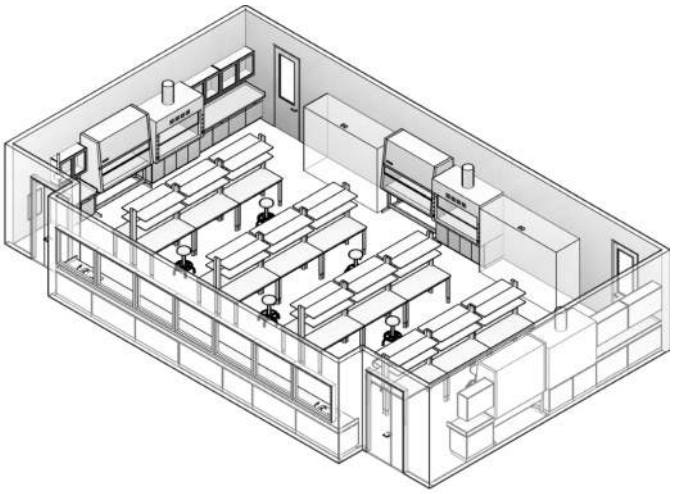
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.250.0015

Room Name	Biochemistry Wet Bench Research - Open Lab
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_BIOCHEM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:09 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	488.25	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbbJ	Height:	0	Occupant	4
Revit Level	LEVEL 3	Perimeter:	94	Revit Model	UWEC-HOK-AR
		Feasibility NSF	443	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.250.0015

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☑	(Qty: 1) Size: 78x36x84
Vert Lam Flow Hoods:	☑	(Qty: 1) Size: 78x36x84
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0015

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0015

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

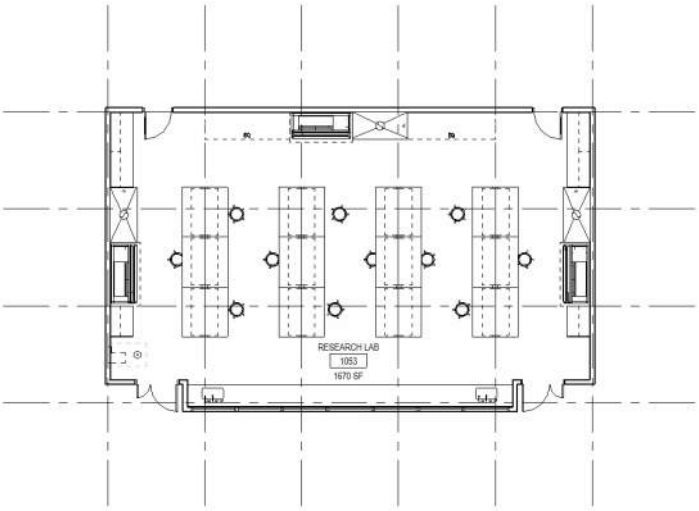
AUDIO VISUAL

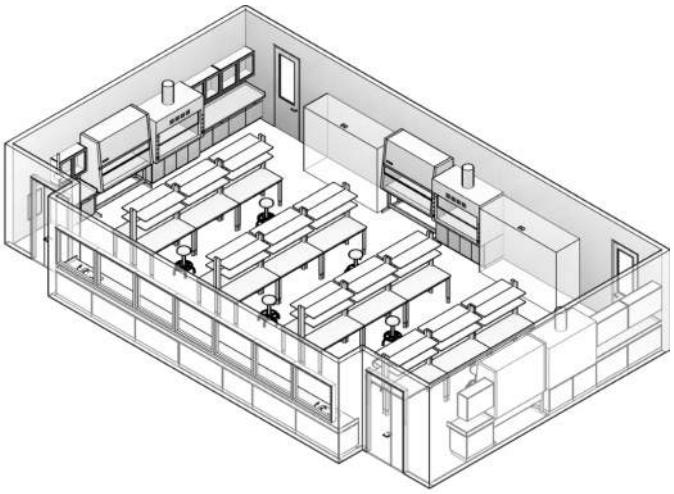
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.250.0016

Room Name	Biochemistry Wet Bench Research - Open Lab
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_BIOCHEM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:09 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	488.25	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbbU	Height:	0	Occupant	4
Revit Level	LEVEL 3	Perimeter:	94	Revit Model	UWEC-HOK-AR
		Feasibility NSF	443	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.250.0016

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☑	(Qty: 1) Size: 78x36x84
Vert Lam Flow Hoods:	☑	(Qty: 1) Size: 78x36x84
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0016

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0016

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

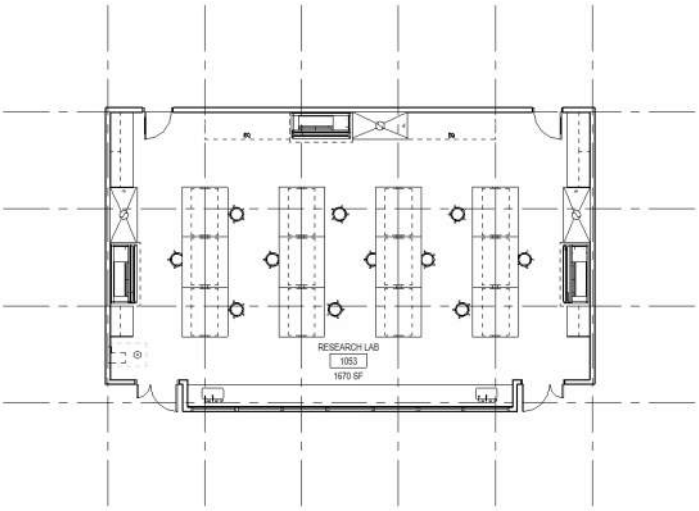
AUDIO VISUAL

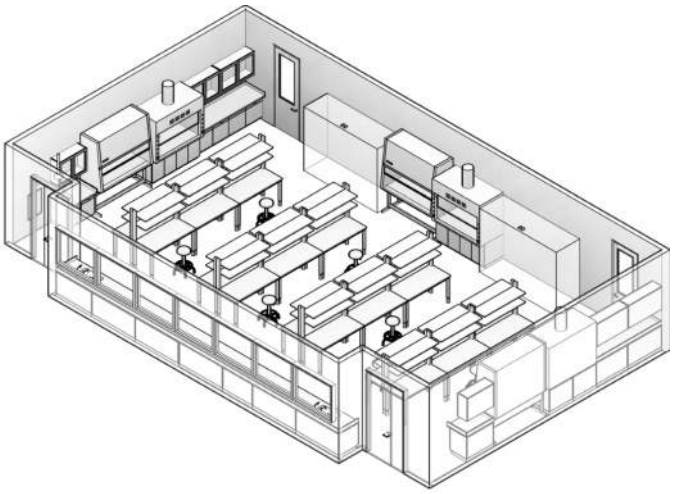
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.250.0017

Room Name	Chemistry Computational
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	Unique
Last modified	Ivey, David, 2/5/2021 1:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	200.00	Borrowed Light	Control
User Room Number		Actual	0.00	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbJs	Height:	0	Occupant	1
		Perimeter:	90.5	Revit Model	UWEC-HOK-AR
		Feasibility NSF	400	Revit Sync Date	2021-04-05
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.250.0017

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0017

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0017

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.250.0021

Room Name	Physical Chemistry (Laser)
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_PCHEM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:13 PM

Categorization

Room Number	
User Room Number	
IFCID	2n8vGMyaP8fwASZkHsKbJc
Revit Level	LEVEL 3

Areas

Programmed	400.00
Actual	427.08
Height:	0
Perimeter:	82.67
Feasibility NSF	500

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Chemistry
From Model Phase	New Construction
Occupant	2
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.250.0021

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0021

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0021

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☑
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.250.0022

Room Name	Physical Chemistry (Laser)
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_PCHEM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:13 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	500.00	Borrowed Light	Control
User Room Number		Actual	0.00	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC85R	Height:	0	Occupant	2
		Perimeter:	0	Revit Model	UWEC-HOK-AR
		Feasibility NSF	500	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☑
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☑
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☑
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☑ Rubber

FLOOR BASE
- Applied ☑
- Integral ☐
- Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
- Size: 3'-0" x 8'-0"
- Type: 1/2 Vision Panel
- Material: Wood

DOOR 2
- Size: 4'-6" x 8'-0"
- Type: 1/2 Vision Panel
- Material: Wood

DOOR 3
- Size:
- Type:
- Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.250.0022

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0022

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0022

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.250.0023

Room Name	Synthetic Wet Bench Research - Flex Room
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_SYNTH-SL
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	75.38	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC857	Height:	0	Occupant	6
Revit Level	LEVEL 3	Perimeter:	35.83	Revit Model	UWEC-HOK-AR
		Feasibility NSF	57	Revit Sync Date	2021-04-26
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.250.0023

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0023

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0023

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.250.0024

Room Name	Synthetic Wet Bench Research - Flex Room
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_SYNTH-SL
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	75.38	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC853	Height:	0	Occupant	6
Revit Level	LEVEL 3	Perimeter:	35.83	Revit Model	UWEC-HOK-AR
		Feasibility NSF	57	Revit Sync Date	2021-04-26
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.250.0024

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0024

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0024

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.250.0025

Room Name	Synthetic Wet Bench Research - Flex Room
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_SYNTH-SL
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	78.17	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC85F	Height:	0	Occupant	6
Revit Level	LEVEL 3	Perimeter:	36.33	Revit Model	UWEC-HOK-AR
		Feasibility NSF	57	Revit Sync Date	2021-04-26
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.250.0025

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0025

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0025

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.250.0026

Room Name	Synthetic Wet Bench Research - Flex Room
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_SYNTH-SL
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	0QMyFAJLnCoQ7vn9EgC85B
Revit Level	LEVEL 3

Areas

Programmed	57.00
Actual	0.00
Height:	0
Perimeter:	0
Feasibility NSF	57

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	6
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.250.0026

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0026

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0026

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.250.0027

Room Name	Synthetic Wet Bench Research - Flex Room
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_SYNTH-SL
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	0.00	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC86t	Height:	0	Occupant	6
Revit Level	LEVEL 3	Perimeter:	0	Revit Model	UWEC-HOK-AR
		Feasibility NSF	57	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.250.0027

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0027

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0027

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.250.0028

Room Name	Synthetic Wet Bench Research - Flex Room
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_SYNTH-SL
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	0QMyFAJLnCoQ7vn9EgC86p
Revit Level	LEVEL 3

Areas

Programmed	57.00
Actual	0.00
Height:	0
Perimeter:	0
Feasibility NSF	57

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	6
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.250.0028

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0028

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0028

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.250.0029

Room Name	Synthetic Wet Bench Research - Open Lab
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_SYNTH-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	0QMyFAJLnCoQ7vn9EgC86$
Revit Level	LEVEL 3

Areas

Programmed	456.00
Actual	448.32
Height:	0
Perimeter:	91.17
Feasibility NSF	443

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	6
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.250.0029

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 3) Size: 72x36x84 Type: DISTILATION RACK
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0029

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0029

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

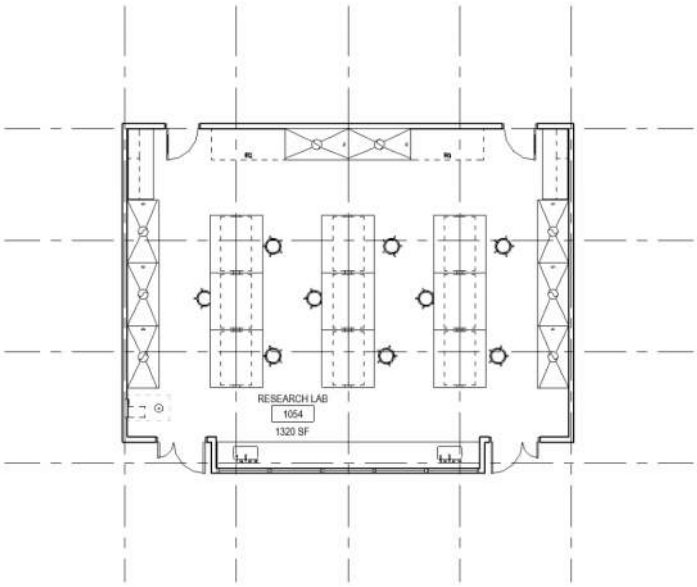
AUDIO VISUAL

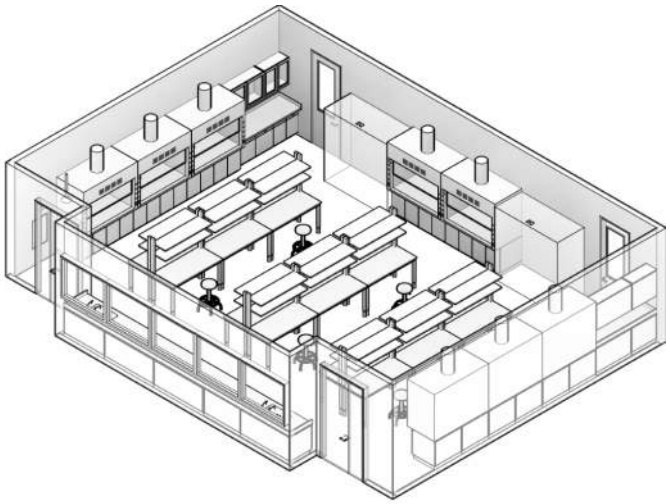
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.250.0030

Room Name	Synthetic Wet Bench Research - Open Lab
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_SYNTH-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	0QMyFAJLnCoQ7vn9EgC86x
Revit Level	LEVEL 3

Areas

Programmed	456.00
Actual	450.97
Height:	0
Perimeter:	91.33
Feasibility NSF	443

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	6
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.250.0030

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 3) Size: 72x36x84 Type: DISTILATION RACK
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0030

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0030

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

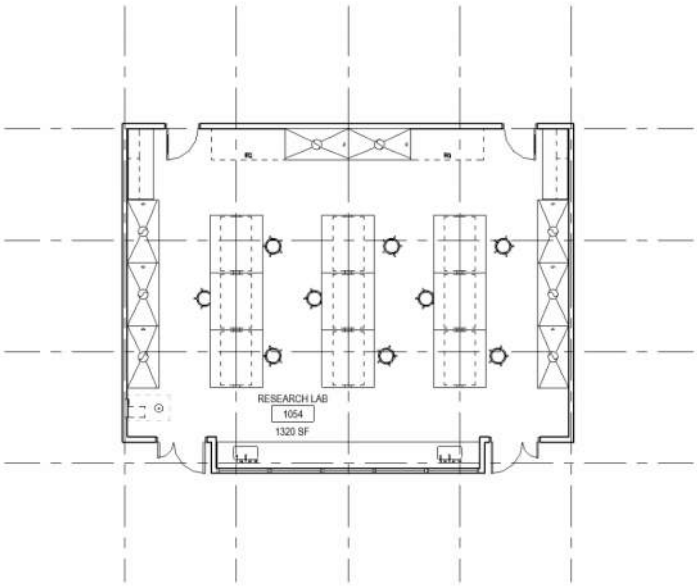
AUDIO VISUAL

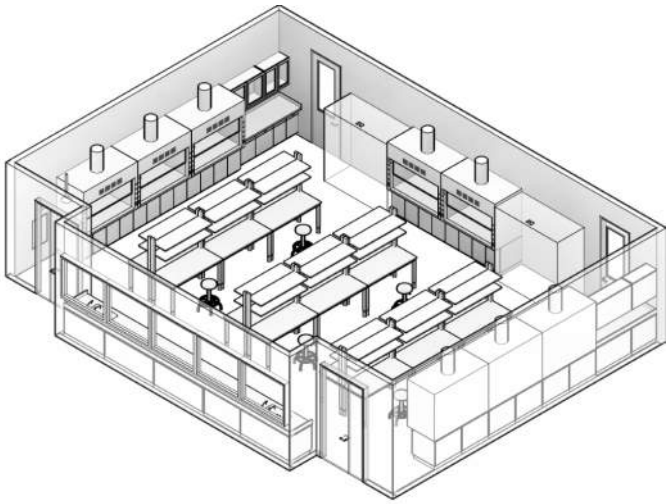
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.250.0031

Room Name	Synthetic Wet Bench Research - Open Lab
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_SYNTH-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	0QMyFAJLnCoQ7vn9EgC86d
Revit Level	LEVEL 3

Areas

Programmed	456.00
Actual	477.50
Height:	0
Perimeter:	90.83
Feasibility NSF	443

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	6
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.250.0031

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 3) Size: 72x36x84 Type: DISTILATION RACK
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0031

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0031

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

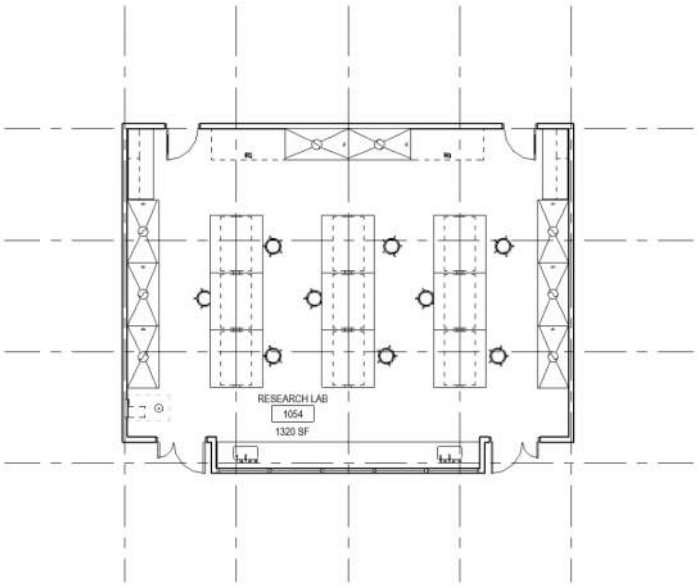
AUDIO VISUAL

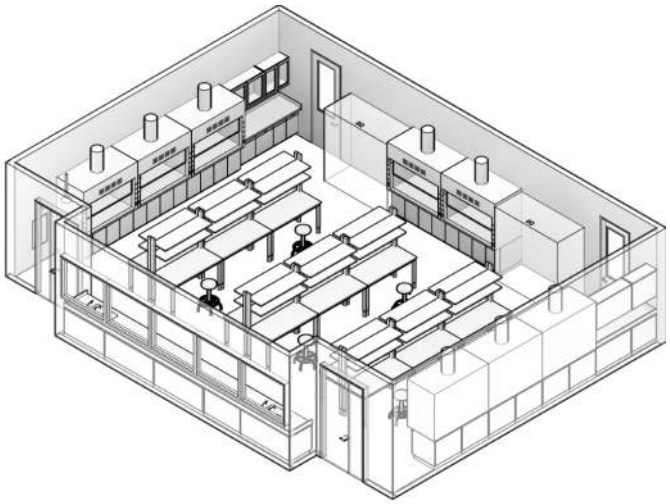
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.250.0032

Room Name	Synthetic Wet Bench Research - Open Lab
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_SYNTH-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	445.67	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC86Z	Height:	0	Occupant	6
Revit Level	LEVEL 3	Perimeter:	0	Revit Model	UWEC-HOK-AR
		Feasibility NSF	443	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.250.0032

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 3) Size: 72x36x84 Type: DISTILATION RACK
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0032

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0032

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

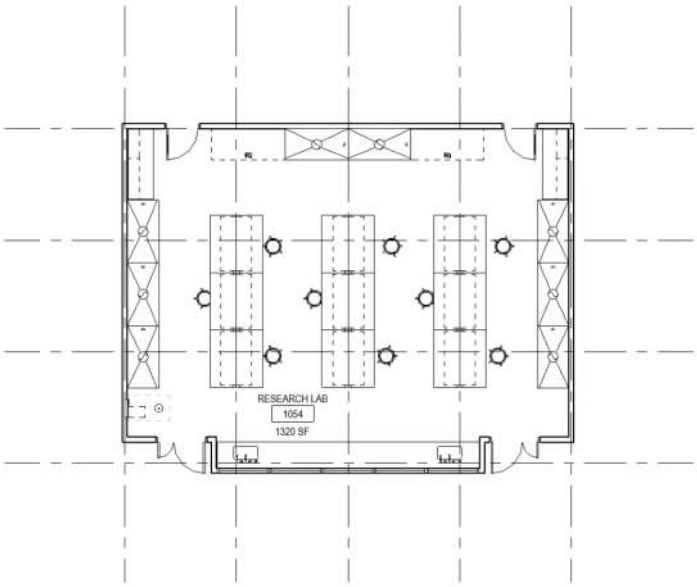
AUDIO VISUAL

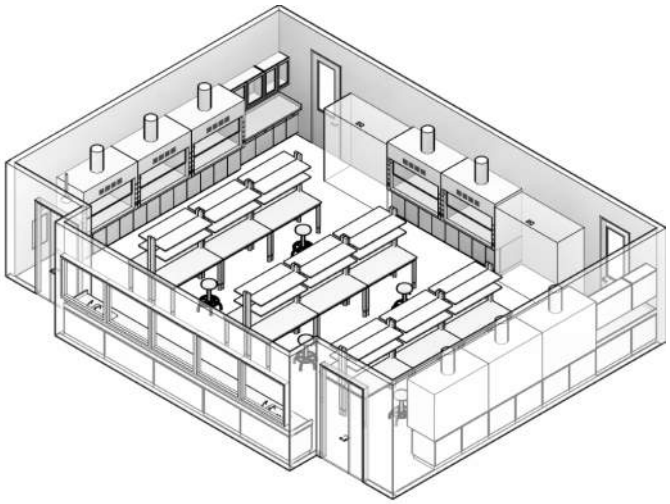
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.250.0033

Room Name	Synthetic Wet Bench Research - Open Lab
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_SYNTH-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	0QMyFAJLnCoQ7vn9EgC86I
Revit Level	LEVEL 3

Areas

Programmed	456.00
Actual	450.97
Height:	0
Perimeter:	0
Feasibility NSF	443

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	6
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.250.0033

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 3) Size: 72x36x84 Type: DISTILATION RACK
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.250.0033

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0033

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

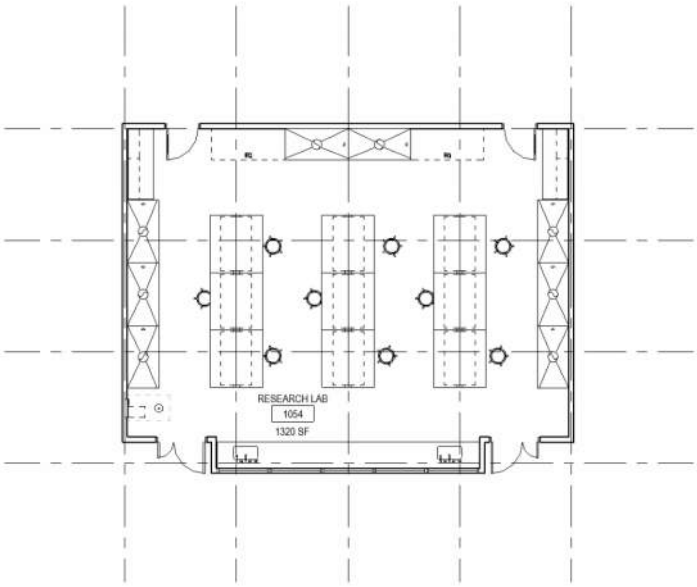
AUDIO VISUAL

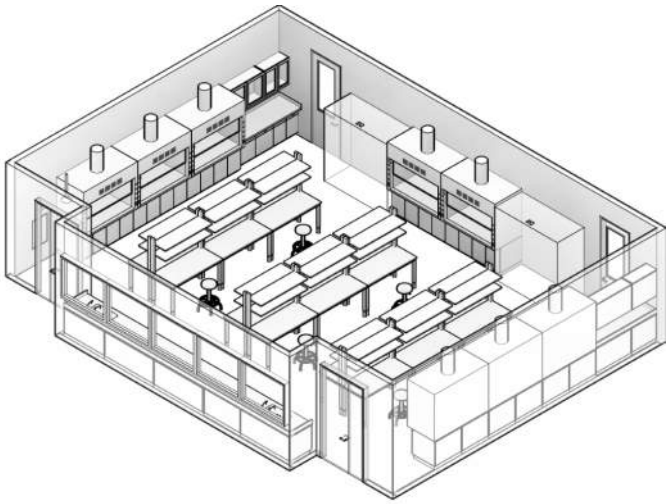
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.250.0034

Room Name	Synthetic Wet Bench Research - Open Lab
Function Location:	02 - Chemistry / 250 - Research Laboratory
Room Data Status	From RL_SYNTH-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	0QMyFAJLnCoQ7vn9EgC86h
Revit Level	LEVEL 3

Areas

Programmed	456.00
Actual	445.67
Height:	0
Perimeter:	0
Feasibility NSF	443

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	6
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.250.0034

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 3) Size: 72x36x84 Type: DISTILATION RACK
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.250.0034

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

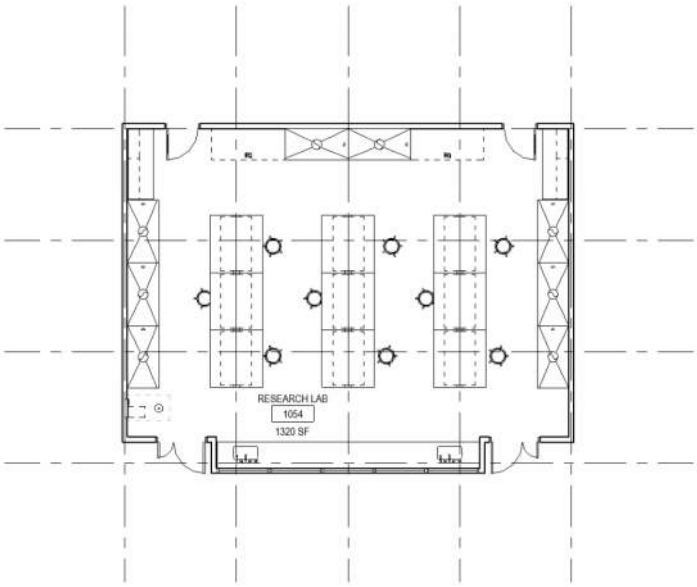
AUDIO VISUAL

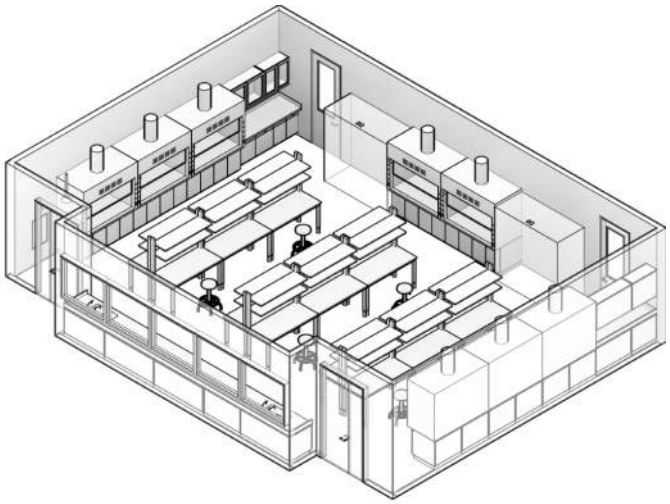
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 02.255.0001

Room Name	Chemistry Instrument Suite
Function Location:	02 - Chemistry / 255 - Research Laboratory Service
Room Data Status	From RL_SUPPORT
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	2n8vGMyaP8fwASZkHsKbJ$
Revit Level	LEVEL 3

Areas

Programmed	2,000.00
Actual	985.86
Height:	0
Perimeter:	146.67
Feasibility NSF	2,000

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-26
Space Type	Research-Lab Support
UWEC FICM Number	255 - Research Laboratory Service

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 02.255.0001

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.255.0001

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.255.0002

Room Name	NMR
Function Location:	02 - Chemistry / 255 - Research Laboratory Service
Room Data Status	From RL_SUPPORT
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	300.00	Borrowed Light	No Light
User Room Number		Actual	194.75	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC86N	Height:	0	Occupant	1
Revit Level	LEVEL 3	Perimeter:	60	Revit Model	UWEC-HOK-AR
		Feasibility NSF	300	Revit Sync Date	2021-04-26
				Space Type	Research-Lab Support
				UWEC FICM Number	255 - Research Laboratory Service

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.255.0002

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 02.255.0002

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.255.0002

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 02.255.0003

Room Name	XRD
Function Location:	02 - Chemistry / 255 - Research Laboratory Service
Room Data Status	From RL_SUPPORT
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	100.00	Borrowed Light	No Light
User Room Number		Actual	97.22	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC86J	Height:	0	Occupant	0
Revit Level	LEVEL 3	Perimeter:	39.5	Revit Model	UWEC-HOK-AR
		Feasibility NSF	100	Revit Sync Date	2021-04-26
				Space Type	Research-Lab Support
				UWEC FICM Number	255 - Research Laboratory Service

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 02.255.0003

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 02.255.0003

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Selection

Room Group Type: UWEC FICM Number

Group: 210 - Class Laboratory, 220 - Open Laboratory, 250 - Research Laboratory , 255 - Research Laboratory Service, 570 - Animal Facilities, 575 - Animal Facilities Services, 580 - Greenhouse, 585 - Greenhouse Service, 215 - Class Laboratory Service, 225 - Open Laboratory Service

Room function: 03: Computer Science

Room Function Number: 03.210.0001

Room Name	Computer Science Teaching Lab - 1
Function Location:	03 - Computer Science / 210 - Class Laboratory
Room Data Status	From TL_COMP-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization	
Room Number	
User Room Number	
Course Number(s)	145, 245, 252, 260, 318, 319
IFCID	35RI25OcP2iODH9wAL$RpC
Revit Level	LEVEL 1

Areas	
Programmed	1,310.00
Actual	1,373.93
Height:	0
Perimeter:	149.5
Feasibility NSF	960

Groups / Classifications / Status	
Borrowed Light	Control
From Model Phase	New Construction
Occupant	32
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-26
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☑
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	
Type:	
Material:	

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☑
Movable Casework	☐
Wall Cabinets	☐
Wall Shelves	☐
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☑
Wood	☐
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☐
Plastic Laminate	☑
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐

EXHAUST DEVICES

Point Exhaust: ☐
Other: ☐

COMMENTS

EQUIPMENT

Item 1 ☐
Item 2 ☐
Item 3 ☐
Item 4 ☐
Item 5 ☐
Item 6 ☐
Item 7 ☐
Item 8 ☐
Item 9 ☐
Item 10 ☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling: 72 F Range +/-: 0
Relative Humidity Cooling: 50 % Range +/-: 0
Design Temp Heating: 72 F Range +/-: 0
Relative Humidity Heating: 25 % Range +/-: 0
Supply Air Filtration
Air Change Rate (ac/hr): 4
Room Pressure Indicator ☐
Pressure Monitor ☐
Laminar Flow Distribution ☐
Exhaust Air Filtration
Exhaust Air: 100% Exhausted ☐
Exhaust Air: Recirculated Air per ASHRAE 62.1 ☐
Low Wall Exhaust ☐

ACOUSTIC

Sound Transmision Class:
Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection: ☐
Other: ☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS): ☐
Vacuum (VAC): ☐
Carbon Diox. (CO2): ☐
Compressed Air (CA): ☐
Chilled Water (CW S/R): ☐
Nitrogen (N2): ☐
Helium (He): ☐
Argon (Ar): ☐
Oxygen (O2): ☐
Hydrogen (H): ☐
Liq Nitrogen (LN2): ☐
Special Gas 1 (SG1): ☐
Special Gas 2 (SG2): ☐
Other: ☐

SINKS

Standard ☐
ADA ☐
Scullery ☐
Epoxy ☐
Stainless Steel ☐
Marine Edge ☐

SERVICES AT SINKS

Hot Water (HW) ☐
Cold Water (CW) ☐
High Purity Water ☐
Eye Wash ☐
Drench Hose ☐
DI/RO Water (DI/RO): ☐

OTHER

Floor Drain (FD) ☐
Floor Sink (FS) ☐
Trench Drain (TD) ☐
Safety Shower (SS) ☐
Eye Wash (EW) ☐
Other: ☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 03.210.0002

Room Name	Cybersecurity Teaching & Research
Function Location:	03 - Computer Science / 210 - Class Laboratory
Room Data Status	From TL_COMP-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	CS 370, 376, 399
IFCID	12YEYRgfT3qflQWslNUz6X
Revit Level	LEVEL 2

Areas

Programmed	720.00
Actual	1,002.75
Height:	0
Perimeter:	126.67
Feasibility NSF	720

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Computer Science
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☑
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision
	Panel
Material:	Wood

DOOR 2

Size:

Type:

Material:

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☑	Metal	☐
Wood	☐	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Computer server racks (Qty: 3)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐			
Item 3	☐			
Item 4	☐			
Item 5	☐			
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 03.210.0002

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

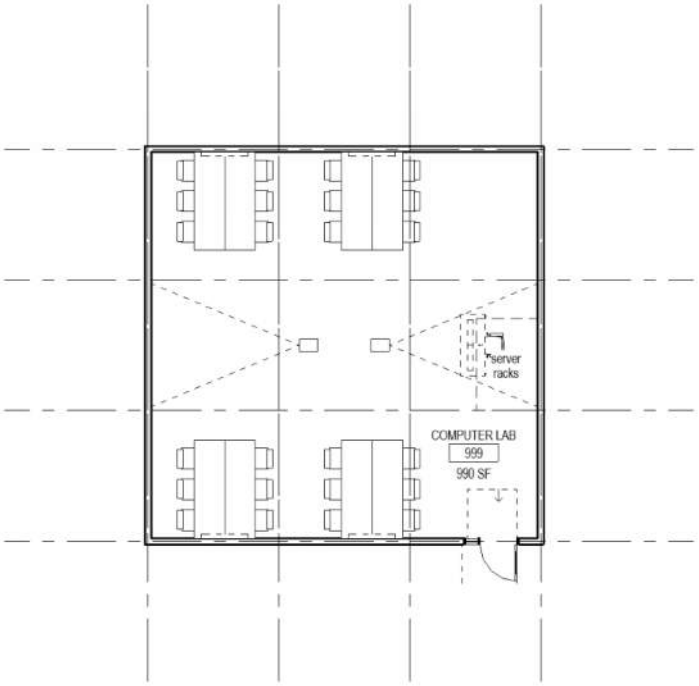
Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

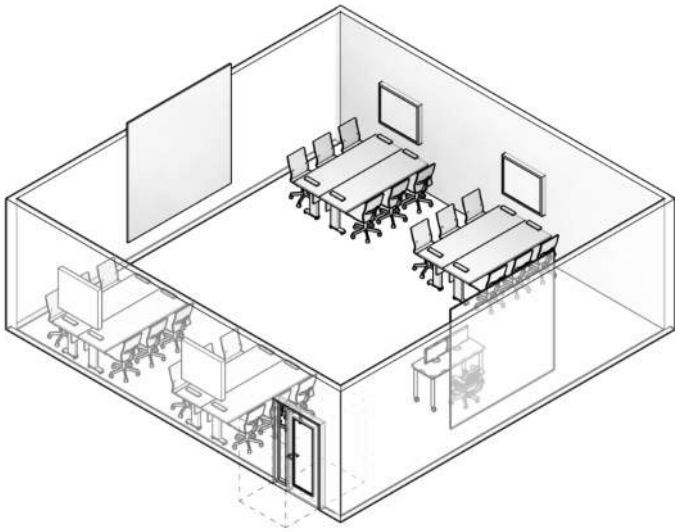
COMMENTS

either projection or flat panel display

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 03.250.0001

Room Name	Computational Research
Function Location:	03 - Computer Science / 250 - Research Laboratory
Room Data Status	From RL_COMP-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization

Room Number	
User Room Number	
IFCID	12YEYRgfT3qflQWslNUz64
Revit Level	LEVEL 2

Areas

Programmed	200.00
Actual	233.51
Height:	0
Perimeter:	65.67
Feasibility NSF	200

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Computer Science
From Model Phase	New Construction
Occupant	3
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Research-Specialty Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [ ] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [x] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☑
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☑	Metal	☐
Wood	☐	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:
Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 03.250.0002

Room Name	Computational Research
Function Location:	03 - Computer Science / 250 - Research Laboratory
Room Data Status	From RL_COMP-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization

Room Number	
User Room Number	
IFCID	12YEYRgfT3qflQWslNUz61
Revit Level	LEVEL 2

Areas

Programmed	200.00
Actual	233.51
Height:	0
Perimeter:	65.67
Feasibility NSF	200

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Computer Science
From Model Phase	New Construction
Occupant	3
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Research-Specialty Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [ ] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [x] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☑
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☑	Metal	☐
Wood	☐	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 03.250.0003

Room Name	Computational Research
Function Location:	03 - Computer Science / 250 - Research Laboratory
Room Data Status	From RL_COMP-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization

Room Number	
User Room Number	
IFCID	12YEYRgfT3qflQWslNUz6Y
Revit Level	LEVEL 2

Areas

Programmed	200.00
Actual	233.51
Height:	0
Perimeter:	65.67
Feasibility NSF	200

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Computer Science
From Model Phase	New Construction
Occupant	3
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Research-Specialty Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☑
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision
	Panel
Material:	Wood

DOOR 2

Size:

Type:

Material:

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☑
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☑	Metal	☐
Wood	☐	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 03.250.0004

Room Name	Data Visualization
Function Location:	03 - Computer Science / 250 - Research Laboratory
Room Data Status	From RL_COMP-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization

Room Number	
User Room Number	
IFCID	12YEYRgfT3qflQWslNUz6V
Revit Level	LEVEL 2

Areas

Programmed	200.00
Actual	185.76
Height:	0
Perimeter:	59.5
Feasibility NSF	200

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Computer Science
From Model Phase	New Construction
Occupant	2
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Research-Specialty Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

COMMENTS

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☑
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:

Type:

Material:

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☑
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☑	Metal	☐
Wood	☐	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 03.250.0005

Room Name	Data Visualization
Function Location:	03 - Computer Science / 250 - Research Laboratory
Room Data Status	From RL_COMP-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization

Room Number	
User Room Number	
IFCID	12YEYRgfT3qflQWslNUz62
Revit Level	LEVEL 2

Areas

Programmed	200.00
Actual	185.76
Height:	0
Perimeter:	59.5
Feasibility NSF	200

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Computer Science
From Model Phase	New Construction
Occupant	2
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Research-Specialty Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

COMMENTS

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☑
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:

Type:

Material:

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☑
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☑	Metal	☐
Wood	☐	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 03.250.0006

Room Name	Tutoring - Computer Lab
Function Location:	03 - Computer Science / 250 - Research Laboratory
Room Data Status	From RL_COMP-E
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization

Room Number	
User Room Number	
IFCID	12YEYRgfT3qflQWslNUz6D
Revit Level	LEVEL 2

Areas

Programmed	500.00
Actual	600.08
Height:	0
Perimeter:	102
Feasibility NSF	960

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Computer Science
From Model Phase	New Construction
Occupant	32
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Research-Specialty Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☑
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	
Type:	
Material:	

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☑
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☑	Metal	☐
Wood	☐	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

2-3 displays

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 03.250.0007

Room Name	Tutoring - Technology Lab
Function Location:	03 - Computer Science / 250 - Research Laboratory
Room Data Status	From RL_COMP-E
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization

Room Number	
User Room Number	
IFCID	12YEYRgfT3qflQWslNUz6E
Revit Level	LEVEL 2

Areas

Programmed	200.00
Actual	207.20
Height:	0
Perimeter:	57.92

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Computer Science
From Model Phase	New Construction
Occupant	32
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Research-Specialty Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☑
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	
Type:	
Material:	

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☑
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☑	Metal	☐
Wood	☐	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

2-3 displays

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 03.250.0008

Room Name	Computational Research
Function Location:	03 - Computer Science / 250 - Research Laboratory
Room Data Status	From RL_COMP-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization

Room Number	
User Room Number	
IFCID	12YEYRgfT3qflQWslNUz6O
Revit Level	LEVEL 2

Areas

Programmed	200.00
Actual	233.51
Height:	0
Perimeter:	65.67

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Computer Science
From Model Phase	New Construction
Occupant	5
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Research-Specialty Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

COMMENTS

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☑
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision
	Panel
Material:	Wood

DOOR 2

Size:

Type:

Material:

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☑
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☑	Metal	☐
Wood	☐	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Selection

Room Group Type: UWEC FICM Number

Group: 210 - Class Laboratory, 220 - Open Laboratory, 250 - Research Laboratory , 255 - Research Laboratory Service, 570 - Animal Facilities, 575 - Animal Facilities Services, 580 - Greenhouse, 585 - Greenhouse Service, 215 - Class Laboratory Service, 225 - Open Laboratory Service

Room function: 04: Geography and Anthropology

Room Function Number: 04.210.0001

Room Name	Geospatial Teaching Lab - 1
Function Location:	04 - Geography and Anthropology / 210 - Class Laboratory
Room Data Status	From TL_GEOG
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization	
Room Number	
User Room Number	
Course Number(s)	135, 335, 337, 352, 435, 455
IFCID	08FLbL28D2ZPVIVJVyBzOO
Revit Level	LEVEL 4

Areas	
Programmed	1,290.00
Actual	1,328.25
Height:	0
Perimeter:	147.33
Feasibility NSF	1,200

Groups / Classifications / Status	
Borrowed Light	Control
From Model Phase	New Construction
Occupant	32
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☑
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	
Type:	
Material:	

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☐
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☐
Plastic Laminate	☑
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐

EXHAUST DEVICES

Point Exhaust: ☐
Other: ☐

COMMENTS

EQUIPMENT

Item 1 ☐
Item 2 ☐
Item 3 ☐
Item 4 ☐
Item 5 ☐
Item 6 ☐
Item 7 ☐
Item 8 ☐
Item 9 ☐
Item 10 ☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:
Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection: ☐
Other: ☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS): ☐
Vacuum (VAC): ☐
Carbon Diox. (CO2): ☐
Compressed Air (CA): ☐
Chilled Water (CW S/R): ☐
Nitrogen (N2): ☐
Helium (He): ☐
Argon (Ar): ☐
Oxygen (O2): ☐
Hydrogen (H): ☐
Liq Nitrogen (LN2): ☐
Special Gas 1 (SG1): ☐
Special Gas 2 (SG2): ☐
Other: ☐

SINKS

Standard ☐
ADA ☐
Scullery ☐
Epoxy ☐
Stainless Steel ☐
Marine Edge ☐

SERVICES AT SINKS

Hot Water (HW) ☐
Cold Water (CW) ☐
High Purity Water ☐
Eye Wash ☐
Drench Hose ☐
DI/RO Water (DI/RO): ☐

OTHER

Floor Drain (FD) ☐
Floor Sink (FS) ☐
Trench Drain (TD) ☐
Safety Shower (SS) ☐
Eye Wash (EW) ☐
Other: ☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☑
Distance Learning	☑
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Name	Geospatial Teaching Lab - 2
Function Location:	04 - Geography and Anthropology / 210 - Class Laboratory
Room Data Status	From TL_GEOG
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	336, 338, 340, 350, 358, 363, 364, 390, 438
IFCID	08FLbL28D2ZPVIVJVyBzOT
Revit Level	LEVEL 4

Areas

Programmed	1,290.00
Actual	1,328.25
Height:	0
Perimeter:	147.33
Feasibility NSF	1,200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	32
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☑
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:

Type:

Material:

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☑
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☑
Distance Learning	☑
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 04.210.0003

Room Name	Geospatial Teaching Lab - 3
Function Location:	04 - Geography and Anthropology / 210 - Class Laboratory
Room Data Status	From TL_GEOG
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	Control
User Room Number		Actual	0.00	Occupant	32
Course Number(s)	111, 213, 200, 339, 368, 370, 401	Height:	0	Space Type	Education-Teaching Lab
		Perimeter:	0	UWEC FICM Number	210 - Class Laboratory
		Feasibility NSF	1,200		

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [ ] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [x] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☑
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☑
Distance Learning	☑
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Name	Physical Geography
Function Location:	04 - Geography and Anthropology / 210 - Class Laboratory
Room Data Status	From TL_PHYS-GEOG
Last modified	Niewoehner, Daniel, 4/22/2021 12:13 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	104, 301, 350, 361, 363, 364, 369
IFCID	08FLbL28D2ZPVIVJVyBzO2
Revit Level	LEVEL 4

Areas

Programmed	1,290.00
Actual	1,328.25
Height:	0
Perimeter:	147.33
Feasibility NSF	1,200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	28
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☑
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:

Type:

Material:

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☑ TACK WALLS

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 5
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☑
Other:	☑ PULL DOWN PENDANT LIGHTS THAT CAN BE BROUGHT DOWN TO DESK HEIGHT

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☑
Distance Learning	☑
Other:	☑ Writeable walls

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Name	Field Equipment Storage
Function Location:	04 - Geography and Anthropology / 215 - Class Laboratory Service
Room Data Status	From TL_GEOG-SUP
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization	
Room Number	
User Room Number	

Areas	
Programmed	0.00
Actual	0.00
Height:	0
Perimeter:	0

Groups / Classifications / Status	
Borrowed Light	No Light
Ground Floor	Required
Occupant	0
Space Type	Education-Teaching Lab Support
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Name	Geography Storage
Function Location:	04 - Geography and Anthropology / 215 - Class Laboratory Service
Room Data Status	From TL_GEOG-SUP
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	400.00	Borrowed Light	No Light
User Room Number		Actual	376.74	From Model Phase	New Construction
IFCID	35RI25OcP2iODH9wAL$Rib	Height:	0	Ground Floor	Required
Revit Level	LEVEL 1	Perimeter:	80.67	Occupant	1
		Feasibility NSF	400	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-06
				Space Type	Education-Teaching Lab Support
				UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 04.250.0001

Room Name	Geography Computational Research Remote Sensing
Function Location:	04 - Geography and Anthropology / 250 - Research Laboratory
Room Data Status	From RL_DRY-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	08FLbL28D2ZPVIVJVyBzT4
Revit Level	LEVEL 4

Areas

Programmed	200.00
Actual	204.75
Height:	0
Perimeter:	57.5
Feasibility NSF	200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	4
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Dry Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐	
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☑	(Qty: 2)
Other:	☐	

COMMENTS

at least two point exhaust fume hoods (flexible snorkels) to reach over wide area for soldering work that could be at a bench or apparatus

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

3-phase power for greatest flexibility or ability to easily add if required in the future

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

card access for student researches

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 04.250.0002

Room Name	Geography Computational Research Remote Sensing
Function Location:	04 - Geography and Anthropology / 250 - Research Laboratory
Room Data Status	From RL_DRY-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	200.00	Borrowed Light	Control
User Room Number		Actual	204.75	From Model Phase	New Construction
IFCID	08FLbL28D2ZPVIVJVyBzT9	Height:	0	Occupant	4
Revit Level	LEVEL 4	Perimeter:	57.5	Revit Model	UWEC-HOK-AR
		Feasibility NSF	200	Revit Sync Date	2021-04-06
				Space Type	Research-Dry Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐	
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☑	(Qty: 2)
Other:	☐	

COMMENTS

at least two point exhaust fume hoods (flexible snorkels) to reach over wide area for soldering work that could be at a bench or apparatus

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

3-phase power for greatest flexibility or ability to easily add if required in the future

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

card access for student researches

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Name	Geography Computational Research Remote Sensing
Function Location:	04 - Geography and Anthropology / 250 - Research Laboratory
Room Data Status	From RL_DRY-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	200.00	Borrowed Light	Control
User Room Number		Actual	204.75	From Model Phase	New Construction
IFCID	08FLbL28D2ZPVIVJVyBzTE	Height:	0	Occupant	4
Revit Level	LEVEL 4	Perimeter:	57.5	Revit Model	UWEC-HOK-AR
		Feasibility NSF	200	Revit Sync Date	2021-04-06
				Space Type	Research-Dry Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐	
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☑	(Qty: 2)
Other:	☐	

COMMENTS

at least two point exhaust fume hoods (flexible snorkels) to reach over wide area for soldering work that could be at a bench or apparatus

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

3-phase power for greatest flexibility or ability to easily add if required in the future

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

card access for student researches

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Name	Geography Computational Research Remote Sensing
Function Location:	04 - Geography and Anthropology / 250 - Research Laboratory
Room Data Status	From RL_DRY-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	200.00	Borrowed Light	Control
User Room Number		Actual	204.75	From Model Phase	New Construction
IFCID	08FLbL28D2ZPVIVJVyBzlp	Height:	0	Occupant	4
Revit Level	LEVEL 4	Perimeter:	57.5	Revit Model	UWEC-HOK-AR
		Feasibility NSF	200	Revit Sync Date	2021-04-06
				Space Type	Research-Dry Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐	
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☑	(Qty: 2)
Other:	☐	

COMMENTS

at least two point exhaust fume hoods (flexible snorkels) to reach over wide area for soldering work that could be at a bench or apparatus

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

3-phase power for greatest flexibility or ability to easily add if required in the future

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

card access for student researches

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Name	Geography Wet Bench Research - Flex Room
Function Location:	04 - Geography and Anthropology / 250 - Research Laboratory
Room Data Status	From RL-WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	58.50	From Model Phase	New Construction
IFCID	08FLbL28D2ZPVIVJVyBzGy	Height:	0	Occupant	2
Revit Level	LEVEL 4	Perimeter:	31.5	Revit Model	UWEC-HOK-AR
		Feasibility NSF	57	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 04.250.0005

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

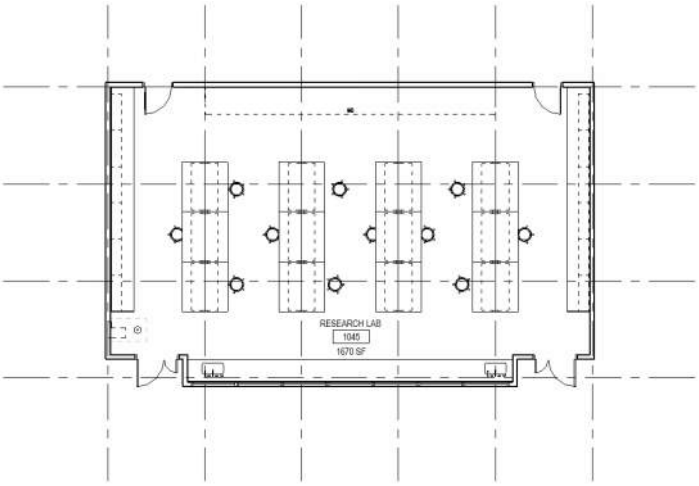
AUDIO VISUAL

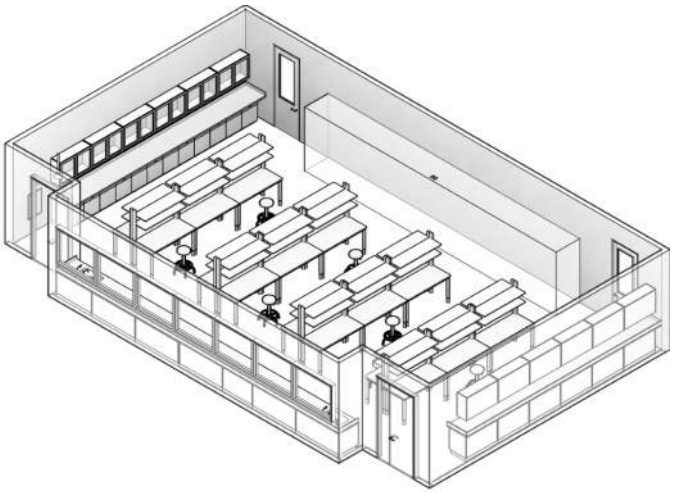
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Name	Geography Wet Bench Research - Flex Room
Function Location:	04 - Geography and Anthropology / 250 - Research Laboratory
Room Data Status	From RL-WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	58.50	From Model Phase	New Construction
IFCID	08FLbL28D2ZPVIVJVyBzGX	Height:	0	Occupant	2
Revit Level	LEVEL 4	Perimeter:	31.5	Revit Model	UWEC-HOK-AR
		Feasibility NSF	57	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 04.250.0006

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

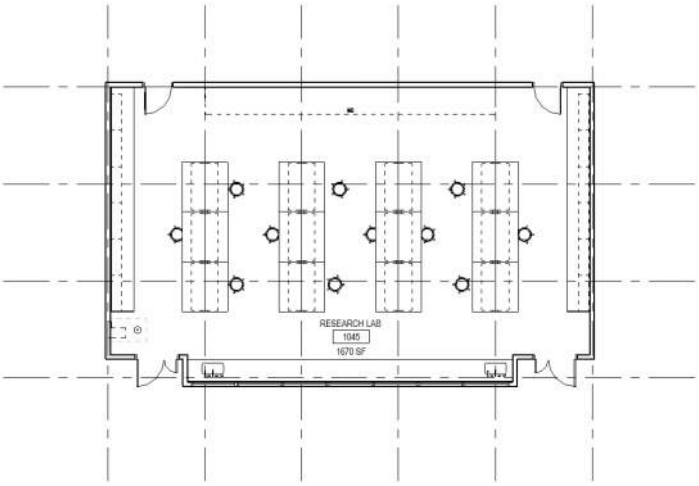
AUDIO VISUAL

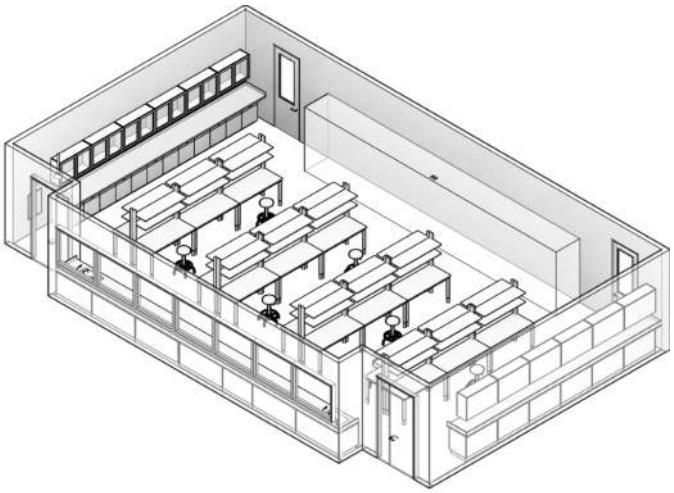
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Name	Geography Wet Bench Research - Open Lab
Function Location:	04 - Geography and Anthropology / 250 - Research Laboratory
Room Data Status	From RL-WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	456.75	From Model Phase	New Construction
IFCID	08FLbL28D2ZPVIVJVyBzT2	Height:	0	Occupant	2
Revit Level	LEVEL 4	Perimeter:	89.5	Revit Model	UWEC-HOK-AR
		Feasibility NSF	443	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 04.250.0007

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

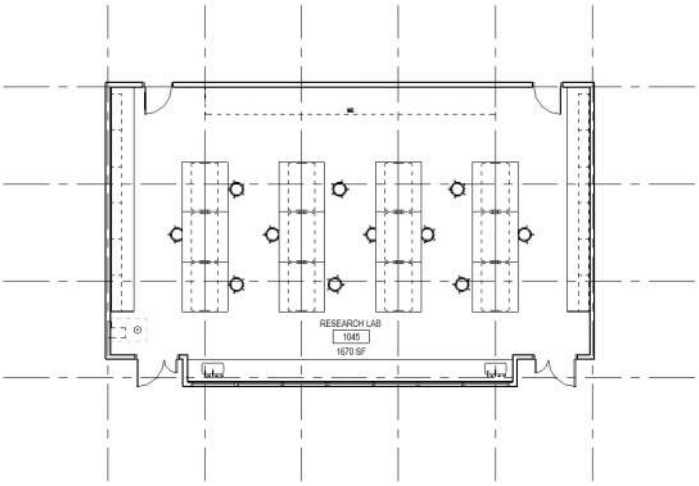
AUDIO VISUAL

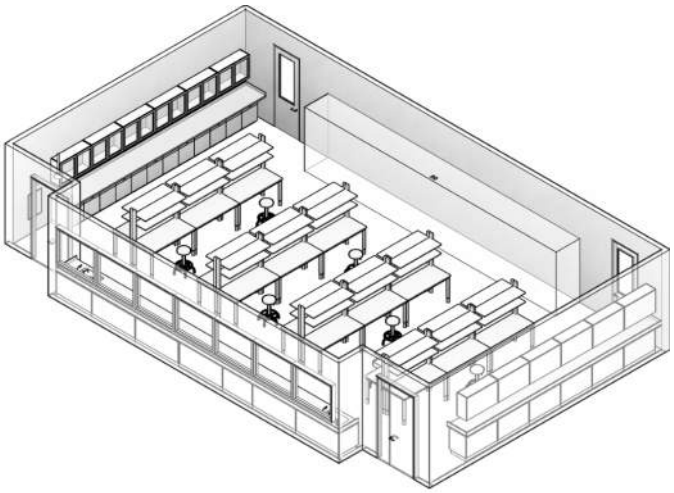
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Name	Geography Wet Bench Research - Open Lab
Function Location:	04 - Geography and Anthropology / 250 - Research Laboratory
Room Data Status	From RL-WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	456.75	From Model Phase	New Construction
IFCID	08FLbL28D2ZPVIVJVyBzT7	Height:	0	Occupant	2
Revit Level	LEVEL 4	Perimeter:	89.5	Revit Model	UWEC-HOK-AR
		Feasibility NSF	443	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 04.250.0008

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

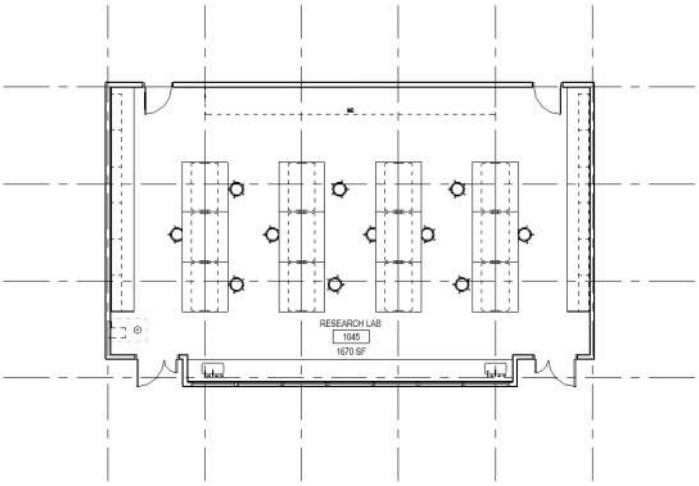
AUDIO VISUAL

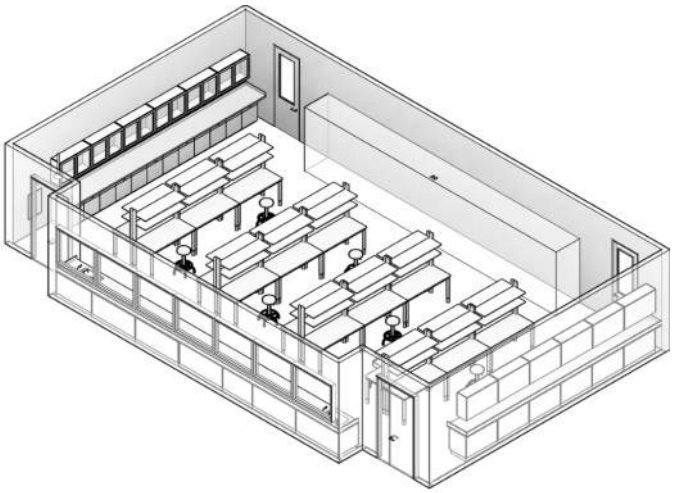
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 04.250.0010

Room Name	Geospatial Research Lab
Function Location:	04 - Geography and Anthropology / 250 - Research Laboratory
Room Data Status	From RL_DRY-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	600.00	Borrowed Light	Control
User Room Number		Actual	614.25	From Model Phase	New Construction
IFCID	08FLbL28D2ZPVIVJVyBzPD	Height:	0	Occupant	8
Revit Level	LEVEL 4	Perimeter:	102	Revit Model	UWEC-HOK-AR
		Feasibility NSF	600	Revit Sync Date	2021-04-06
				Space Type	Research-Dry Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐	
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☑	(Qty: 2)
Other:	☐	

COMMENTS

at least two point exhaust fume hoods (flexible snorkels) to reach over wide area for soldering work that could be at a bench or apparatus

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

3-phase power for greatest flexibility or ability to easily add if required in the future

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

card access for student researches

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Selection

Room Group Type: UWEC FICM Number

Group: 210 - Class Laboratory, 220 - Open Laboratory, 250 - Research Laboratory , 255 - Research Laboratory Service, 570 - Animal Facilities, 575 - Animal Facilities Services, 580 - Greenhouse, 585 - Greenhouse Service, 215 - Class Laboratory Service, 225 - Open Laboratory Service

Room function: 05: Geology

Room Function Number: 05.210.0001

Room Name	Computer Teaching Lab
Function Location:	05 - Geology / 210 - Class Laboratory
Room Data Status	From TL_COMP-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization	
Room Number	
User Room Number	
IFCID	12YEYRgfT3qflQWslNUz3g
Revit Level	LEVEL 2
Course Number(s)	280, 219, 110, 115, 291, 312, 313, 315, 320, 330, 336, 345, 365, 416, 418, 468, 470

Areas	
Programmed	720.00
Actual	602.18
Height:	0
Perimeter:	101.5
Feasibility NSF	720

Groups / Classifications / Status	
Borrowed Light	Control
From Model Department	Geology
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

Room Function Number: 05.210.0001

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☑
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	
Type:	
Material:	

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☐
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☐
Plastic Laminate	☑
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐

Room Function Number: 05.210.0001

EXHAUST DEVICES

Point Exhaust: ☐
Other: ☐

COMMENTS

EQUIPMENT

Item 1 ☐
Item 2 ☐
Item 3 ☐
Item 4 ☐
Item 5 ☐
Item 6 ☐
Item 7 ☐
Item 8 ☐
Item 9 ☐
Item 10 ☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:
Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection: ☐
Other: ☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS): ☐
Vacuum (VAC): ☐
Carbon Diox. (CO2): ☐
Compressed Air (CA): ☐
Chilled Water (CW S/R): ☐
Nitrogen (N2): ☐
Helium (He): ☐
Argon (Ar): ☐
Oxygen (O2): ☐
Hydrogen (H): ☐
Liq Nitrogen (LN2): ☐
Special Gas 1 (SG1): ☐
Special Gas 2 (SG2): ☐
Other: ☐

SINKS

Standard ☐
ADA ☐
Scullery ☐
Epoxy ☐
Stainless Steel ☐
Marine Edge ☐

SERVICES AT SINKS

Hot Water (HW) ☐
Cold Water (CW) ☐
High Purity Water ☐
Eye Wash ☐
Drench Hose ☐
DI/RO Water (DI/RO): ☐

OTHER

Floor Drain (FD) ☐
Floor Sink (FS) ☐
Trench Drain (TD) ☐
Safety Shower (SS) ☐
Eye Wash (EW) ☐
Other: ☐

COMMENTS

Room Function Number: 05.210.0001

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

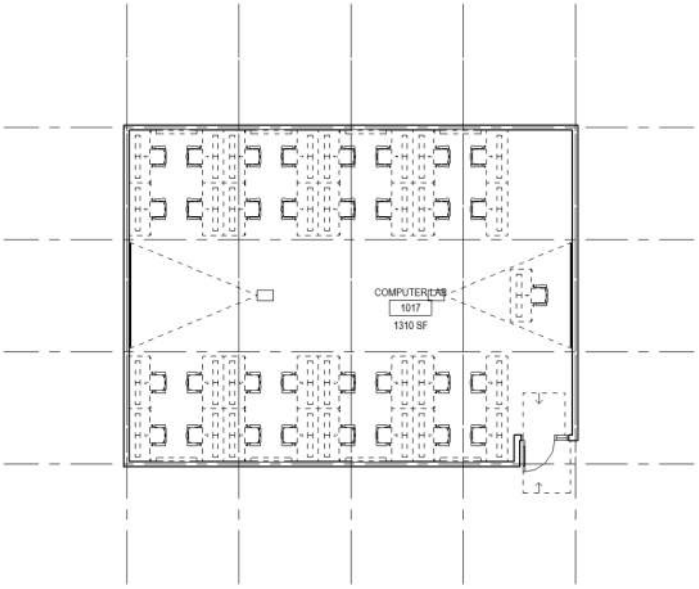
AUDIO VISUAL

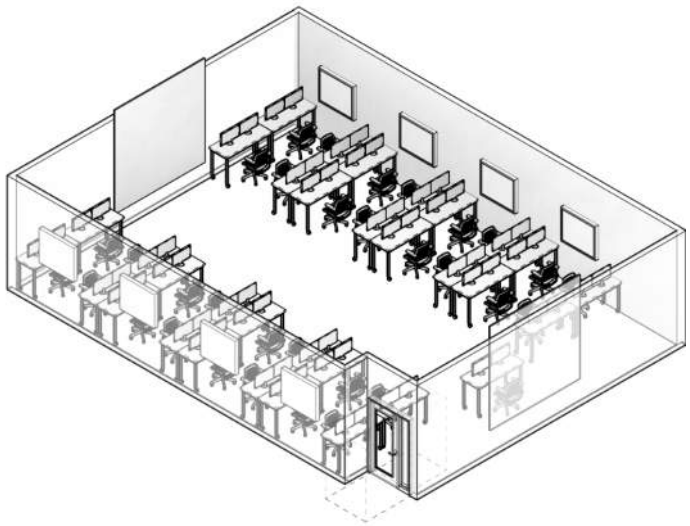
Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☑
Distance Learning	☑
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 05.210.0002

Room Name	Earth History Teaching Lab
Function Location:	05 - Geology / 210 - Class Laboratory
Room Data Status	From TL_WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	110, 115, 395
IFCID	12YEYRgfT3qflQWslNUzAs
Revit Level	LEVEL 2

Areas

Programmed	1,290.00
Actual	1,376.79
Height:	0
Perimeter:	150.17
Feasibility NSF	1,200

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Geology
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 05.210.0002

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 05.210.0002

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 05.210.0003

Room Name	Environmental Geology
Function Location:	05 - Geology / 210 - Class Laboratory
Room Data Status	From TL_WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	Control
User Room Number		Actual	0.00	Occupant	24
Course Number(s)	106, 110, 115, 320, 418	Height:	0	Space Type	Education-Teaching Lab
		Perimeter:	0	UWEC FICM Number	210 - Class Laboratory
		Feasibility NSF	1,200		

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 05.210.0003

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 05.210.0004

Room Name	Hydrogeology Teaching Lab
Function Location:	05 - Geology / 210 - Class Laboratory
Room Data Status	From TL_WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	12YEYRgfT3qflQWslNUzAp
Revit Level	LEVEL 2

Areas

Programmed	1,290.00
Actual	1,342.31
Height:	0
Perimeter:	148

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Geology
From Model Phase	New Construction
Occupant	18
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 05.210.0004

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 05.210.0004

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 05.210.0005

Room Name	Petrology Teaching Lab
Function Location:	05 - Geology / 210 - Class Laboratory
Room Data Status	From TL_WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	12YEYRgfT3qflQWslNUzAi
Revit Level	LEVEL 2
Course Number(s)	312, 313, 330, 365, 395

Areas

Programmed	1,290.00
Actual	1,342.31
Height:	0
Perimeter:	148
Feasibility NSF	1,200

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Geology
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 05.210.0005

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 05.210.0005

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 05.215.0001

Room Name	Field Storage - Garage
Function Location:	05 - Geology / 215 - Class Laboratory Service
Room Data Status	From TL_STORAGE-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	200.00	Borrowed Light	No Light
User Room Number		Actual	334.35	From Model Phase	New Construction
IFCID	35Rl25OcP2iODH9wAL$Rp5	Height:	0	Ground Floor	Required
Revit Level	LEVEL 1	Perimeter:	75.17	Occupant	0
		Feasibility NSF	200	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-06
				Space Type	Education-Teaching Lab Support
				UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☑
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☑
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☑
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☑
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☑
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 05.215.0001

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 05.215.0001

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 05.215.0001

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 05.215.0002

Room Name	Field Storage - Indoor
Function Location:	05 - Geology / 215 - Class Laboratory Service
Room Data Status	From TL_STORAGE-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	200.00	Borrowed Light	No Light
User Room Number		Actual	386.53	From Model Phase	New Construction
IFCID	35Rl25OcP2iODH9wAL$RpO	Height:	0	Ground Floor	Required
Revit Level	LEVEL 1	Perimeter:	81.67	Occupant	0
		Feasibility NSF	200	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-06
				Space Type	Education-Teaching Lab Support
				UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☑
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 05.215.0002

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 05.215.0002

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 05.215.0002

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 05.215.0003

Room Name	Geology Prep Lab
Function Location:	05 - Geology / 215 - Class Laboratory Service
Room Data Status	From TL_SPRT-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	3DyGy1zfXCNOtJ6eV5gGXt
Revit Level	LEVEL 1

Areas

Programmed	300.00
Actual	0.00
Height:	0
Perimeter:	0

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab Support
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 05.215.0003

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 05.215.0003

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 05.215.0003

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 05.215.0004

Room Name	Hydrology equipment
Function Location:	05 - Geology / 215 - Class Laboratory Service
Room Data Status	From TL_STORAGE-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	12YEYRgfT3qflQWslNUz6k
Revit Level	LEVEL 2

Areas

Programmed	300.00
Actual	427.08
Height:	0
Perimeter:	82.67
Feasibility NSF	300

Groups / Classifications / Status

Borrowed Light	No Light
From Model Department	Geology
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Education-Teaching Lab Support
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☑
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 05.215.0004

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 05.215.0004

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 05.215.0004

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☑
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 05.215.0005

Room Name	Rock Storage - Cold
Function Location:	05 - Geology / 215 - Class Laboratory Service
Room Data Status	From TL_STORAGE-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	3DyGy1zfXCNOtJ6eV5gGXp
Revit Level	LEVEL 1

Areas

Programmed	300.00
Actual	332.50
Height:	0
Perimeter:	72.17
Feasibility NSF	300

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Ground Floor	Required
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab Support
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☑
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 05.215.0005

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 05.215.0005

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 05.215.0005

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 05.215.0006

Room Name	Rock Storage - Indoor
Function Location:	05 - Geology / 215 - Class Laboratory Service
Room Data Status	From TL_STORAGE-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	400.00	Borrowed Light	No Light
User Room Number		Actual	467.35	From Model Phase	New Construction
IFCID	35RI25OcP2iODH9wAL$Rp6	Height:	0	Ground Floor	Required
Revit Level	LEVEL 1	Perimeter:	86.5	Occupant	1
		Feasibility NSF	400	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-26
				Space Type	Education-Teaching Lab Support
				UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☑
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☑
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☑
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☑
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☑
- Integral ☐
- Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 05.215.0006

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 05.215.0006

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 05.250.0001

Room Name	Geology Wet Bench
Function Location:	05 - Geology / 250 - Research Laboratory
Room Data Status	From RL-WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	450.00	Borrowed Light	Control
User Room Number		Actual	456.28	From Model Department	Geology
IFCID	12YEYRgfT3qflQWslNUz8i	Height:	0	From Model Phase	New Construction
Revit Level	LEVEL 2	Perimeter:	92.33	Occupant	0
		Feasibility NSF	500	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-29
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 05.250.0001

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 05.250.0001

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

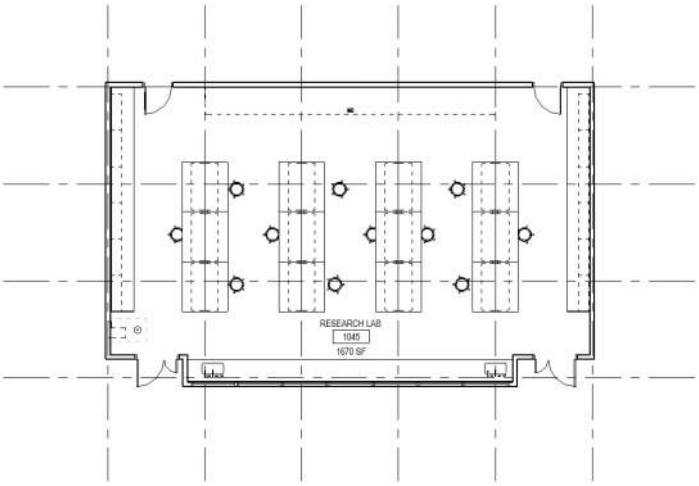
AUDIO VISUAL

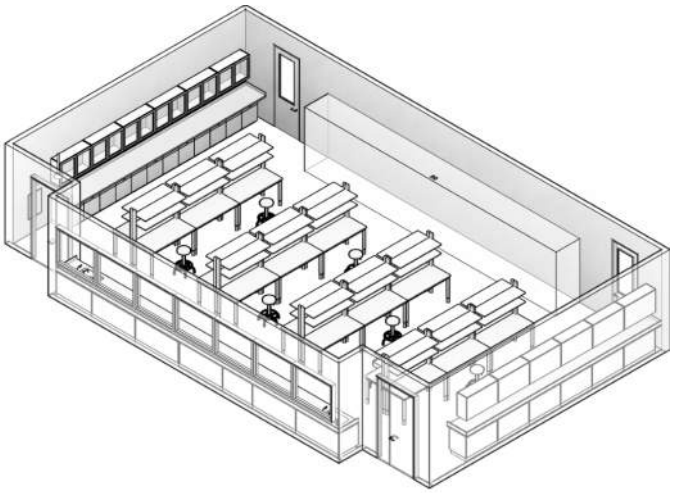
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 05.250.0002

Room Name	Geology Wet Bench Research - Flex Room
Function Location:	05 - Geology / 250 - Research Laboratory
Room Data Status	From RL-WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	52.10	From Model Department	Geology
IFCID	12YEYRgfT3qflQWslNUz6v	Height:	0	From Model Phase	New Construction
Revit Level	LEVEL 2	Perimeter:	30.67	Occupant	1
		Feasibility NSF	57	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-29
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☑
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☑
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☑
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☑ Rubber

FLOOR BASE
- Applied ☑
- Integral ☐
- Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 05.250.0002

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 05.250.0002

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 05.250.0002

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

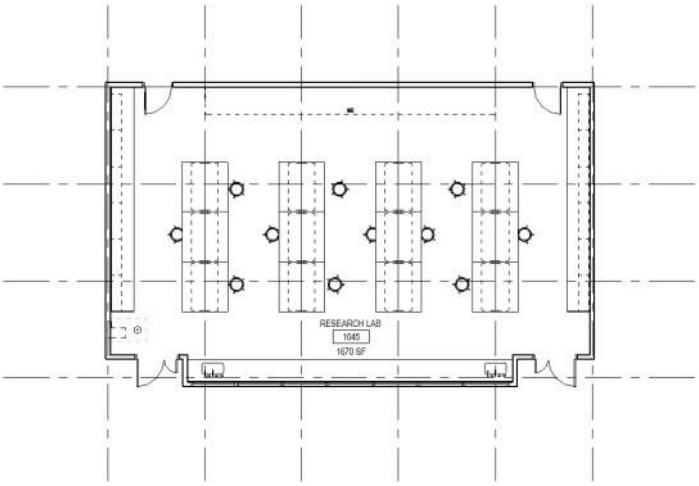
AUDIO VISUAL

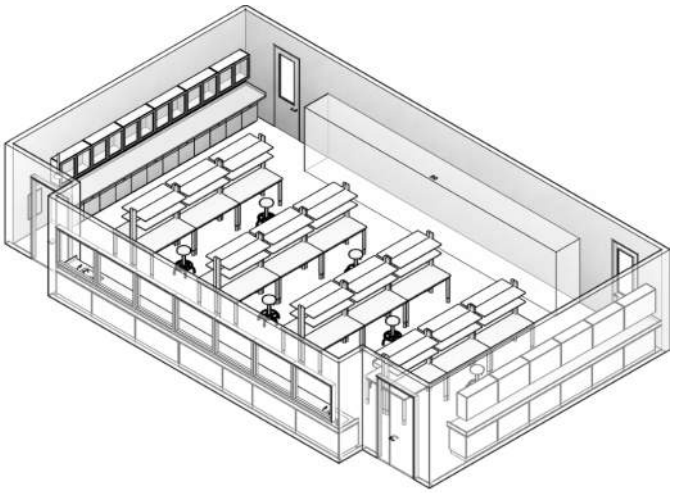
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 05.250.0003

Room Name	Geology Wet Bench Research - Flex Room
Function Location:	05 - Geology / 250 - Research Laboratory
Room Data Status	From RL-WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	52.96	From Model Department	Geology
IFCID	12YEYRgfT3qflQWslNUz6w	Height:	0	From Model Phase	New Construction
Revit Level	LEVEL 2	Perimeter:	30.83	Occupant	4
		Feasibility NSF	57	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-29
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 05.250.0003

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 05.250.0003

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 05.250.0003

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

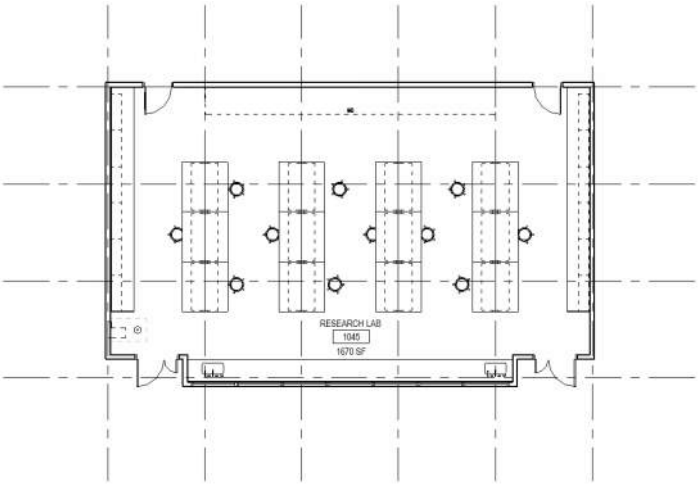
AUDIO VISUAL

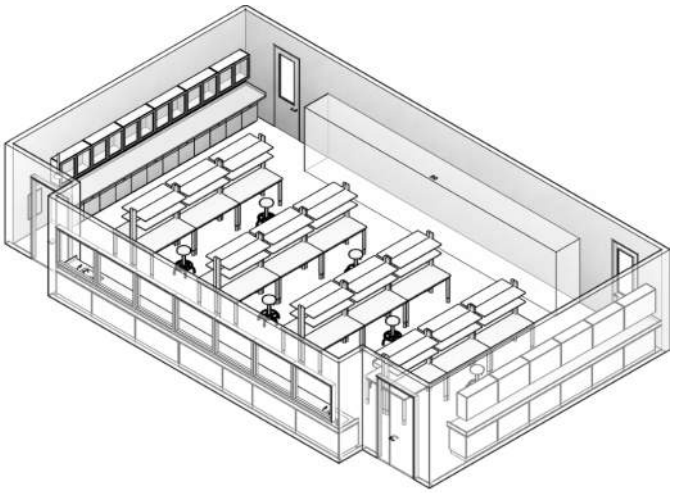
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 05.250.0004

Room Name	Geology Wet Bench Research - Flex Room
Function Location:	05 - Geology / 250 - Research Laboratory
Room Data Status	From RL-WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	52.96	From Model Department	Geology
IFCID	12YEYRgfT3qflQWslNUz6t	Height:	0	From Model Phase	New Construction
Revit Level	LEVEL 2	Perimeter:	30.83	Occupant	4
		Feasibility NSF	57	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-29
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 05.250.0004

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 05.250.0004

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

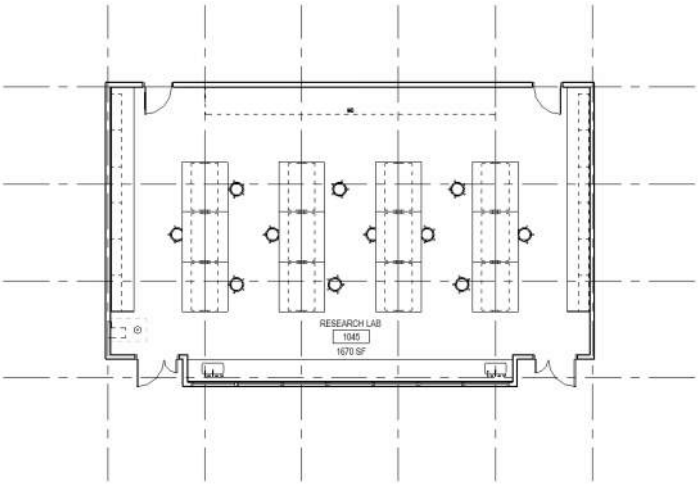
AUDIO VISUAL

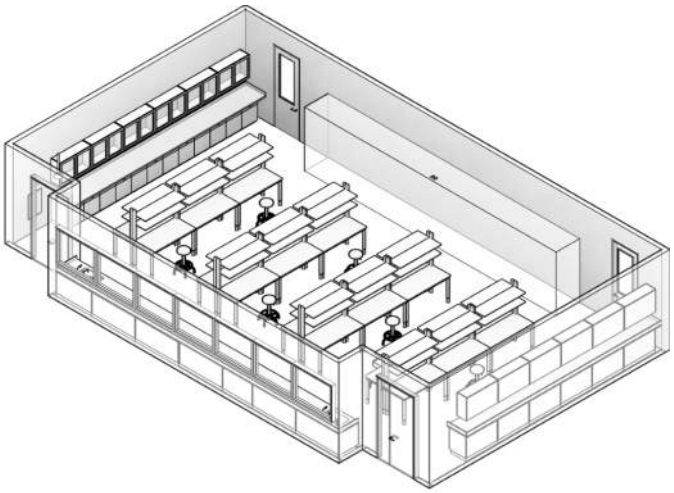
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 05.250.0005

Room Name	Geology Wet Bench Research - Flex Room
Function Location:	05 - Geology / 250 - Research Laboratory
Room Data Status	From RL-WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	57.00	Borrowed Light	Control
User Room Number		Actual	52.10	From Model Department	Geology
IFCID	12YEYRgfT3qflQWslNUz6m	Height:	0	From Model Phase	New Construction
Revit Level	LEVEL 2	Perimeter:	30.67	Occupant	4
		Feasibility NSF	57	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-29
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 05.250.0005

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 05.250.0005

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 05.250.0005

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

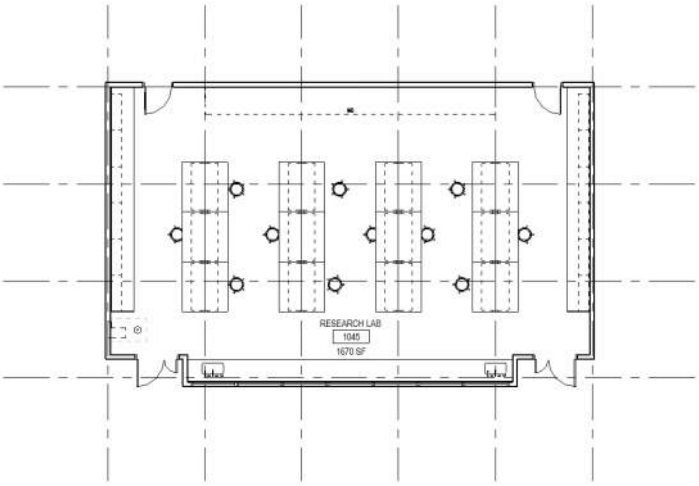
AUDIO VISUAL

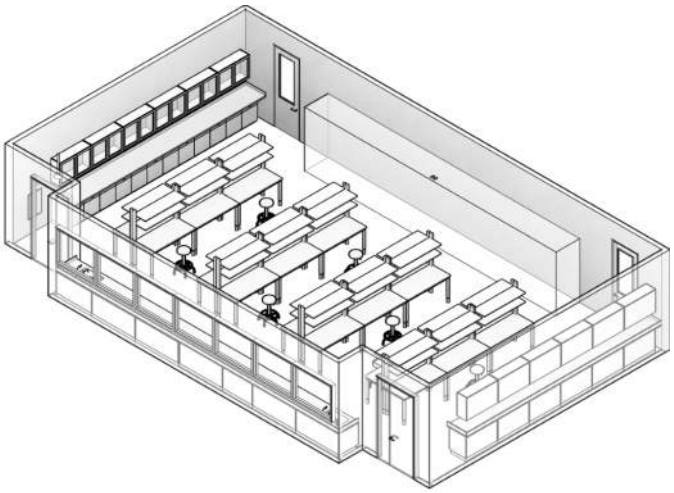
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 05.250.0007

Room Name	Geology Wet Bench Research - Open Lab
Function Location:	05 - Geology / 250 - Research Laboratory
Room Data Status	From RL-WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	464.24	From Model Department	Geology
IFCID	12YEYRgfT3qflQWslNUz8f	Height:	0	From Model Phase	New Construction
Revit Level	LEVEL 2	Perimeter:	92.83	Occupant	1
		Feasibility NSF	443	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-29
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 05.250.0007

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 05.250.0007

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 05.250.0007

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

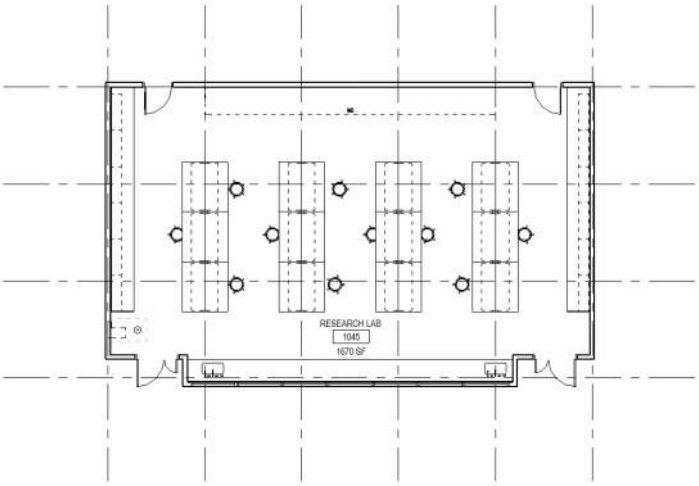
AUDIO VISUAL

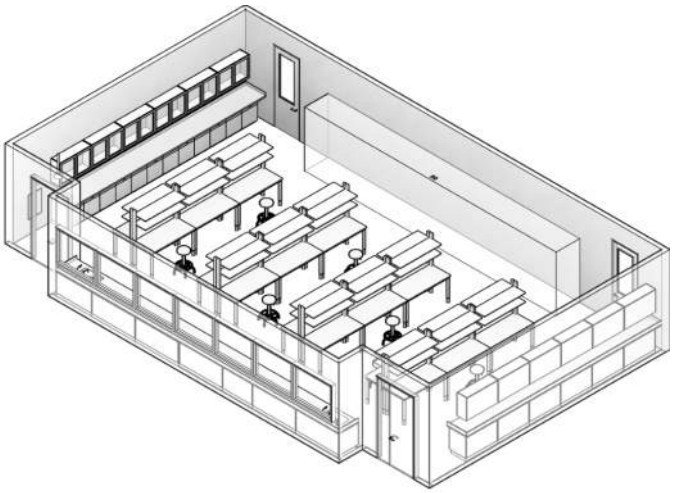
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 05.250.0008

Room Name	Geology Wet Bench Research - Open Lab
Function Location:	05 - Geology / 250 - Research Laboratory
Room Data Status	From RL-WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	431.52	From Model Department	Geology
IFCID	3DyGy1zfXCNOtJ6eV5gGXP	Height:	0	From Model Phase	New Construction
Revit Level	LEVEL 2	Perimeter:	90.78	Occupant	4
		Feasibility NSF	443	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-29
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 05.250.0008

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 05.250.0008

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

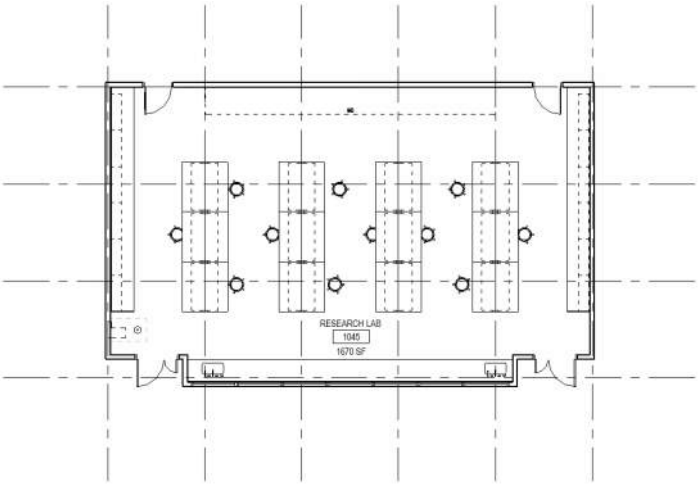
AUDIO VISUAL

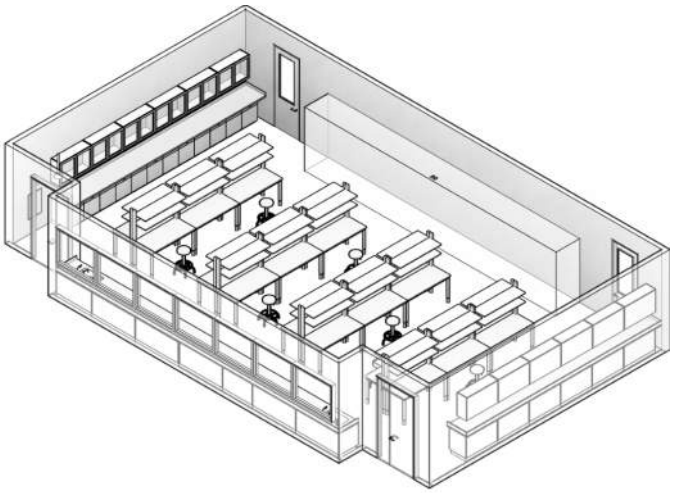
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 05.250.0009

Room Name	Geology Wet Bench Research - Open Lab
Function Location:	05 - Geology / 250 - Research Laboratory
Room Data Status	From RL-WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	456.28	From Model Department	Geology
IFCID	12YEYRgfT3qflQWslNUzBl	Height:	0	From Model Phase	New Construction
Revit Level	LEVEL 2	Perimeter:	92.33	Occupant	4
		Feasibility NSF	443	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-29
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 05.250.0009

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 05.250.0009

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

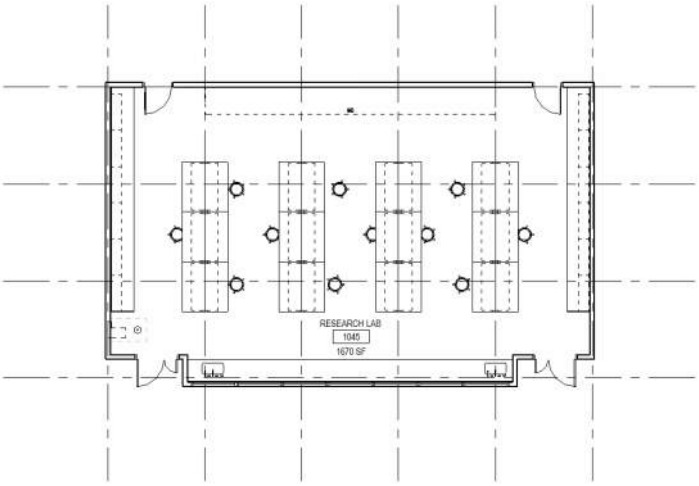
AUDIO VISUAL

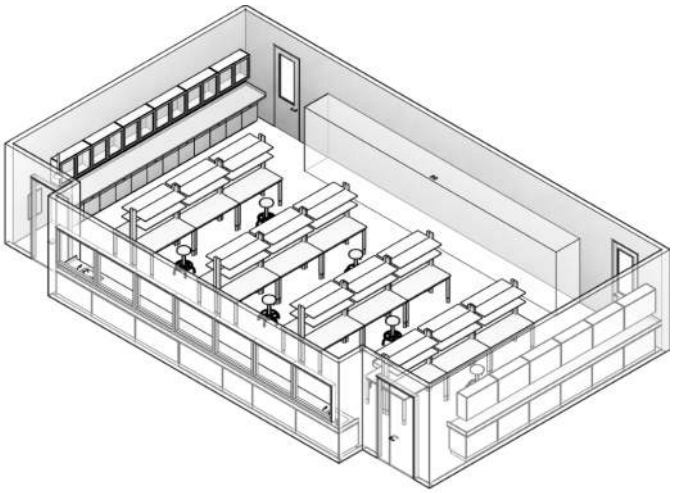
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 05.250.0010

Room Name	Geology Wet Bench Research - Open Lab
Function Location:	05 - Geology / 250 - Research Laboratory
Room Data Status	From RL-WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	456.28	From Model Department	Geology
IFCID	12YEYRgfT3qflQWslNUzBe	Height:	0	From Model Phase	New Construction
Revit Level	LEVEL 2	Perimeter:	92.33	Occupant	4
		Feasibility NSF	443	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-29
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 05.250.0010

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 05.250.0010

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

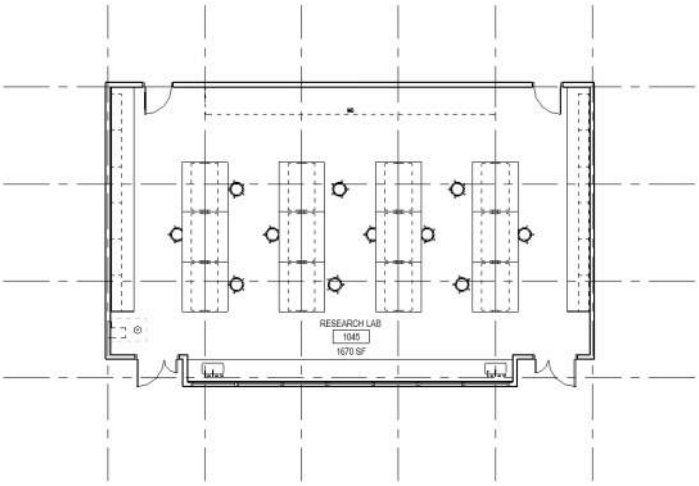
AUDIO VISUAL

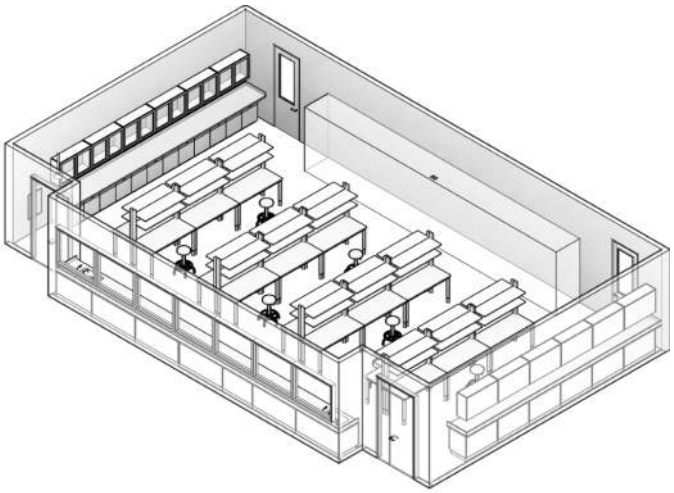
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 05.250.0012

Room Name	Sustainable Geoscience
Function Location:	05 - Geology / 250 - Research Laboratory
Room Data Status	From RL_COMP-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	120.00	Borrowed Light	Control
User Room Number		Actual	448.32	From Model Department	Geology
IFCID	3DyGy1zfXCNOtJ6eV5gGXL	Height:	0	From Model Phase	New Construction
Revit Level	LEVEL 2	Perimeter:	91.83	Occupant	1
		Feasibility NSF	200	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-29
				Space Type	Research-Specialty Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☑
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 05.250.0012

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☑
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 05.250.0012

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 05.250.0012

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboard

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 05.255.0001

Room Name	Experimental Petrology
Function Location:	05 - Geology / 255 - Research Laboratory Service
Room Data Status	From RL_DRY-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	3DyGy1zfXCNOtJ6eV5gGXH
Revit Level	LEVEL 2

Areas

Programmed	200.00
Actual	208.42
Height:	0
Perimeter:	61.33
Feasibility NSF	200

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Geology
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Research-Dry Lab
UWEC FICM Number	255 - Research Laboratory Service

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 05.255.0001

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐	
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☑	(Qty: 2)
Other:	☐	

COMMENTS

at least two point exhaust fume hoods (flexible snorkels) to reach over wide area for soldering work that could be at a bench or apparatus

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

3-phase power for greatest flexibility or ability to easily add if required in the future

Room Function Number: 05.255.0001

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

card access for student researches

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 05.255.0002

Room Name	Petrology Microscope
Function Location:	05 - Geology / 255 - Research Laboratory Service
Room Data Status	From RL_DRY-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	200.00	Borrowed Light	No Light
User Room Number		Actual	208.42	From Model Department	Geology
IFCID	3DyGy1zfXCNOtJ6eV5gGXD	Height:	0	From Model Phase	New Construction
Revit Level	LEVEL 2	Perimeter:	61.33	Occupant	1
		Feasibility NSF	200	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-29
				Space Type	Research-Dry Lab
				UWEC FICM Number	255 - Research Laboratory Service

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐	
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☑	(Qty: 2)
Other:	☐	

COMMENTS

at least two point exhaust fume hoods (flexible snorkels) to reach over wide area for soldering work that could be at a bench or apparatus

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 05.255.0002

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

3-phase power for greatest flexibility or ability to easily add if required in the future

Room Function Number: 05.255.0002

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

card access for student researches

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 05.255.0003

Room Name	Rock Preparation Suite
Function Location:	05 - Geology / 255 - Research Laboratory Service
Room Data Status	From RL_DRY-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	35Rl25OcP2iODH9wAL$Rp3
Revit Level	LEVEL 1

Areas

Programmed	600.00
Actual	692.24
Height:	0
Perimeter:	107.83
Feasibility NSF	600

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Ground Floor	Required
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-26
Space Type	Research-Dry Lab
UWEC FICM Number	255 - Research Laboratory Service

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 05.255.0003

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐	
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☑	(Qty: 2)
Other:	☐	

COMMENTS

at least two point exhaust fume hoods (flexible snorkels) to reach over wide area for soldering work that could be at a bench or apparatus

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 05.255.0003

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

3-phase power for greatest flexibility or ability to easily add if required in the future

Room Function Number: 05.255.0003

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

card access for student researches

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Selection

Room Group Type: UWEC FICM Number

Group: 210 - Class Laboratory, 220 - Open Laboratory, 250 - Research Laboratory , 255 - Research Laboratory Service, 570 - Animal Facilities, 575 - Animal Facilities Services, 580 - Greenhouse, 585 - Greenhouse Service, 215 - Class Laboratory Service, 225 - Open Laboratory Service

Room function: 06: Material Sciences and Engineering

Room Function Number: 06.210.0001

Room Name	Clean Room Teaching Lab
Function Location:	06 - Material Sciences and Engineering / 210 - Class Laboratory
Room Data Status	Unique
Last modified	Niewoehner, Daniel, 2/10/2021 5:27 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	No Light
User Room Number		Actual	0.00	Clean Classification	ISO 3
Course Number(s)	MSE 363	Height:	0	Ground Floor	Required
		Perimeter:	0	Occupant	16
		Feasibility NSF	1,200	UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☑
Other:	☐

WALL PROTECTION

Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Prefab

FLOOR BASE

Applied	☐
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☑ prefab
Other:	☐

DOOR 1

Size:	3'-6" x 8'-0"
Type:	Other
	Vision Panel
Material:	Prefab

DOOR 2

Size:	
Type:	
Material:	

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☐
Wall Cabinets	☐
Wall Shelves	☐
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐

Room Function Number: 06.210.0001

EXHAUST DEVICES

Point Exhaust: ☐
Other: ☐

COMMENTS

EQUIPMENT

Item 1	☑ Sputter deposition (Qty: 1)	Vib. Sens.	☑	Vib. Cause	☐
Item 2	☑ Reactive Ion (Qty: 1)	Vib. Sens.	☑	Vib. Cause	☐
Item 3	☑ Photo lithography (Qty: 1)	Vib. Sens.	☑	Vib. Cause	☐
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling: 0 F Range +/-: 0
Relative Humidity Cooling: 0 % Range +/-: 0
Design Temp Heating: 0 F Range +/-: 0
Relative Humidity Heating: 0 % Range +/-: 0
Supply Air Filtration
Air Change Rate (ac/hr): 0
Room Pressure Indicator ☐
Pressure Monitor ☐
Laminar Flow Distribution ☐
Exhaust Air Filtration
Exhaust Air: 100% Exhausted ☐
Exhaust Air: Recirculated Air per ASHRAE 62.1 ☐
Low Wall Exhaust ☐

ACOUSTIC

Sound Transmision Class:
Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection: ☐
Other: ☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS): ☐
Vacuum (VAC): ☐
Carbon Diox. (CO2): ☐
Compressed Air (CA): ☐
Chilled Water (CW S/R): ☐
Nitrogen (N2): ☐
Helium (He): ☐
Argon (Ar): ☐
Oxygen (O2): ☐
Hydrogen (H): ☐
Liq Nitrogen (LN2): ☐
Special Gas 1 (SG1): ☐
Special Gas 2 (SG2): ☐
Other: ☐

SINKS

Standard ☐
ADA ☐
Scullery ☐
Epoxy ☐
Stainless Steel ☐
Marine Edge ☐

SERVICES AT SINKS

Hot Water (HW) ☐
Cold Water (CW) ☐
High Purity Water ☐
Eye Wash ☐
Drench Hose ☐
DI/RO Water (DI/RO): ☐

OTHER

Floor Drain (FD) ☐
Floor Sink (FS) ☐
Trench Drain (TD) ☐
Safety Shower (SS) ☐
Eye Wash (EW) ☐
Other: ☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

- Raceway ☐
- 110V, 20A, 1 Phase: ☐
- 208V, 30A, 1 Phase ☐
- 208V, 30A, 3 Phase: ☐
- Standby Power ☐
- UPS ☐
- Power at Table ☐
- Data ☐
- Phone ☐
- Other: ☐

LIGHTING

- 80-100 fc @ wrk srfc ☐
- 30-60 fc @ wrk srfc ☐
- Other fc @ wrk srfc: ☐
- Task Lighting ☐
- Dimmable Lighting ☐
- Zoned Lighting ☐
- Prefer Natural Light ☐
- Other: ☐

COMMENTS

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 06.210.0003

Room Name	Flexible Teaching Lab - BME Cores / MSE Experiences
Function Location:	06 - Material Sciences and Engineering / 210 - Class Laboratory
Room Data Status	From TL_FLEX-J
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	1,290.00	Borrowed Light	Control
User Room Number		Actual	1,328.25	From Model Phase	New Construction
Course Number(s)	BME 430, 450	Height:	0	Occupant	24
IFCID	2n8vGMyaP8fwASZkHsKbgK	Perimeter:	147.33	Revit Model	UWEC-HOK-AR
Revit Level	LEVEL 3	Feasibility NSF	1,800	Revit Sync Date	2021-04-05
				Space Type	Education-Teaching Lab
				UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency: connects with teaching tissue culture labs, near biology would be a plus

COMMENTS

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☑
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

single door (hands free) access to cell and tissue human cells lab

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☑	Refrigerator (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 2	☑	Freezer (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 3	☐	
Item 4	☐	
Item 5	☐	
Item 6	☐	
Item 7	☐	
Item 8	☐	
Item 9	☐	
Item 10	☐	

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

quiet fans please

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

floor drain needed if eye wash and safety shower are not separately drained

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 06.210.0003

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

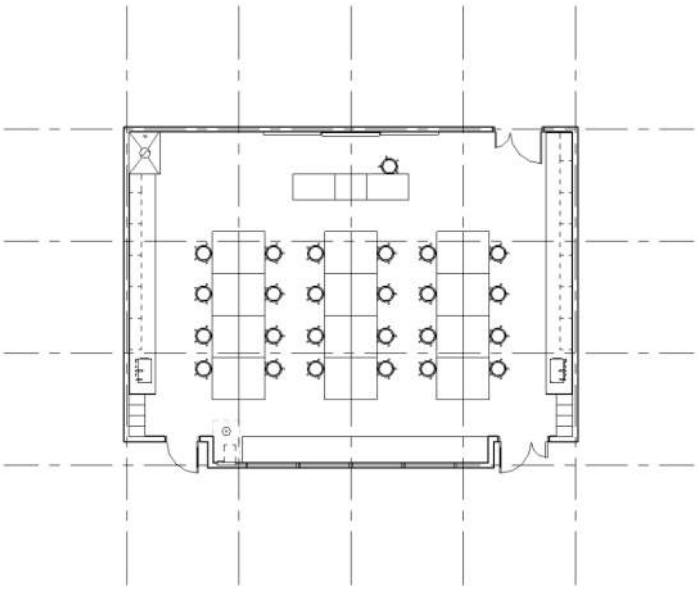
AUDIO VISUAL

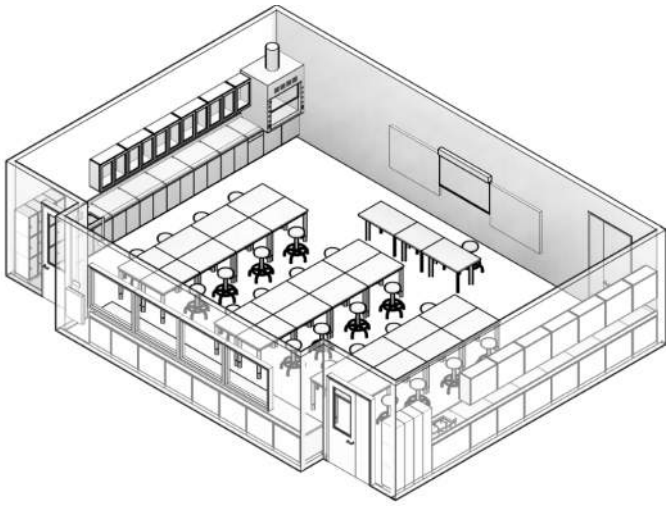
Projection	☑
Flat Panel Display	☑
Camera	☑
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Name	Flexible Teaching Lab - Capstone
Function Location:	06 - Material Sciences and Engineering / 210 - Class Laboratory
Room Data Status	From TL_FLEX-H
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	MSCI 484, 485, MSE 486, 487, BME 486, 487
IFCID	12YEYRgfT3qflQWslNUz7s
Revit Level	LEVEL 2

Areas

Programmed	1,680.00
Actual	1,611.75
Height:	0
Perimeter:	165.33
Feasibility NSF	1,800

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Material Sciences and Engineering
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency: other MSE teaching labs and MSE imaging suite

COMMENTS

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

need hard finished flooring, tile or sealed concrete

CASEWORK

CASEWORK TYPE

Fixed Casework	☑
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

perimeter casework to be fixed, interior tables to be movable

16 have power data for computers, 8 just outer tables

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

quiet fans please

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

need floor drain if eye wash and safety shower are not separately drained

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

electrical above countertop at perimeter cabinets needed (120V, 10A)

Room Function Number: 06.210.0004

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

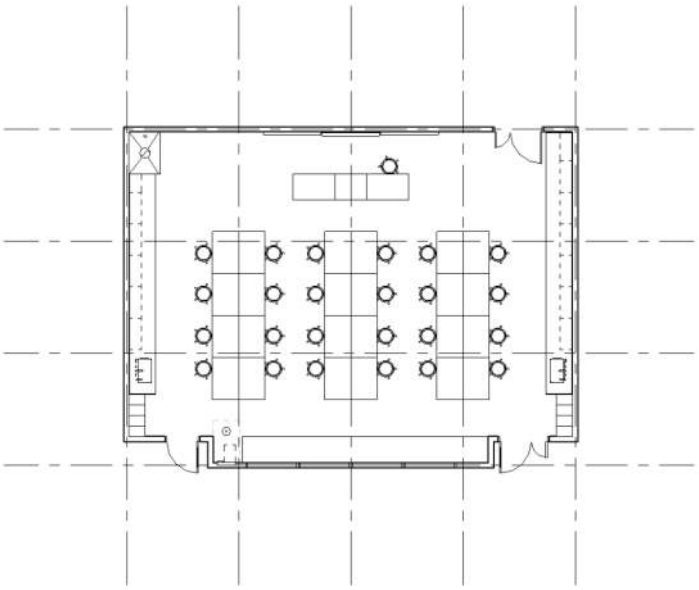
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

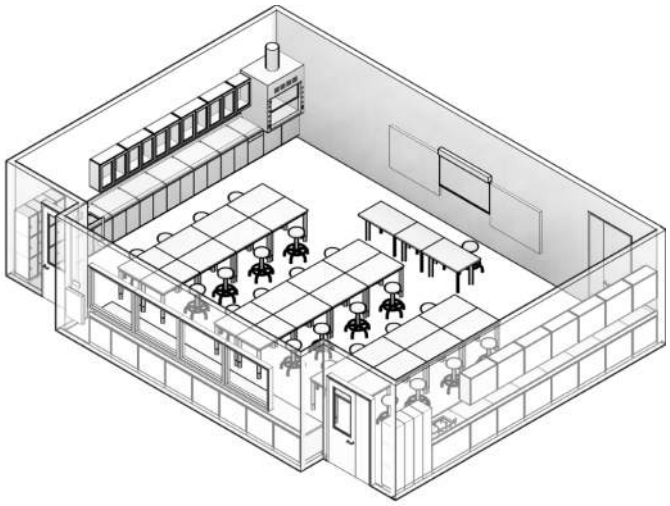
COMMENTS

need a teacher's station

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 06.210.0005

Room Name	Flexible Teaching Lab - Wet Teaching
Function Location:	06 - Material Sciences and Engineering / 210 - Class Laboratory
Room Data Status	From TL_FLEX-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization	Areas		Groups / Classifications / Status	
Room Number	Programmed	0.00	Borrowed Light	Control
User Room Number	Actual	0.00	Occupant	24
	Height:	0	Space Type	Education-Teaching Lab
	Perimeter:	0	UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☑
Movable Casework	☐
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

student workstations will need one fixed cabinet per seat to store student microscopes at point of use

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☑	(Qty: 0)
Other:	☐	

COMMENTS

students will be performing organ dissection at their workstations. Each workstation needs an articulate arc fume hood (ceiling mounted)

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

quiet fans please

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☑ (2)
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

wall mounted drying racks for glassware mounted above all sinks

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

weather resistant outlets
data and electric needed at teaching station in front

Room Function Number: 06.210.0005

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

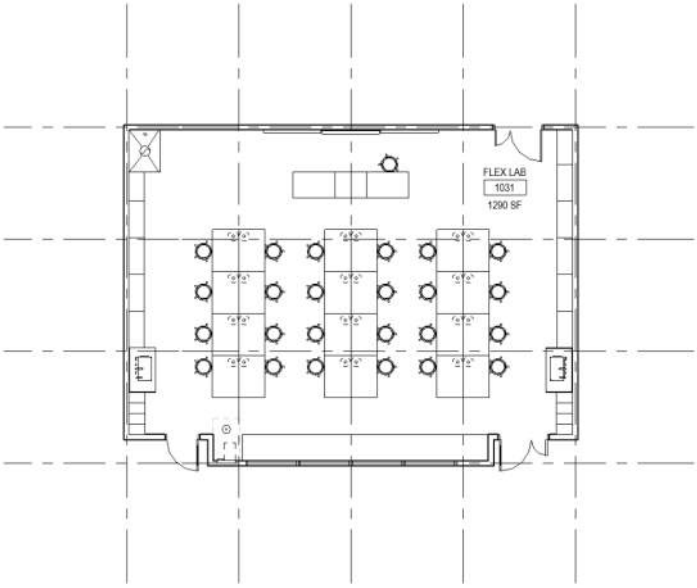
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

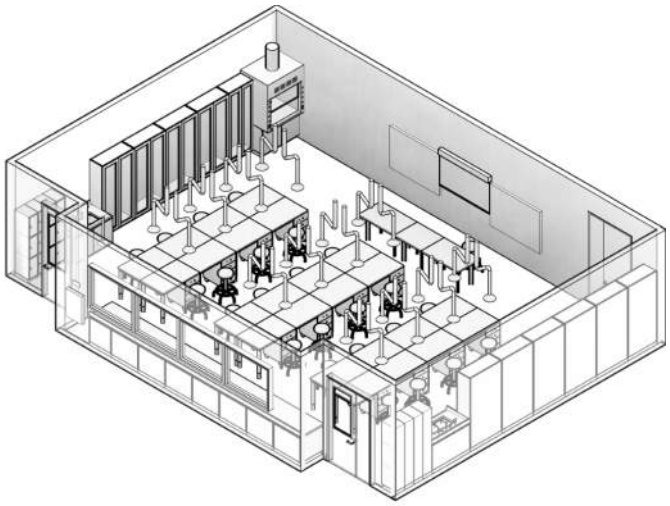
COMMENTS

two total displays at front of room (far left and right)
bulletin board for hanging posters

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 06.210.0006

Room Name	Flexible Teaching Lab - Wet Teaching
Function Location:	06 - Material Sciences and Engineering / 210 - Class Laboratory
Room Data Status	From TL_FLEX-G
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	1,290.00	Borrowed Light	Control
User Room Number		Actual	1,342.31	From Model Department	Material Sciences and Engineering
Course Number(s)	MSE 120, 315, 334	Height:	0		
IFCID	12YEYRgfT3qflQWslNUz7r	Perimeter:	148	From Model Phase	New Construction
Revit Level	LEVEL 2	Feasibility NSF	1,800	Occupant	24
				Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-29
				Space Type	Education-Teaching Lab
				UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency: other MSE teaching labs and support space, as close to MSE imaging suite as possible

UTILIZATION

- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☑
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☑
Movable Casework	☐
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☑
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 4) Size: 72x36x84 Type: Floor standing
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐

EXHAUST DEVICES

Point Exhaust:	☑ (Qty: 0)
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑ Computer stations (Qty: 12) Vib. Sens. ☐ Vib. Cause ☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

quiet fans please

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☑
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☑ (4)
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

need floor drain if eye wash and safety shower are not separately drained

4 sinks at benches are epoxy, 4 sinks next to fume hoods are standard

Room Function Number: 06.210.0006

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

dimmable lights near instruction area for visibility

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

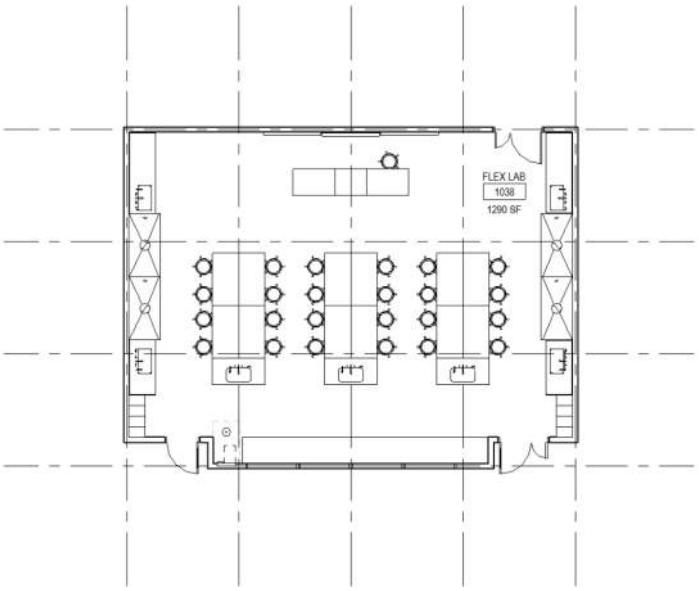
AUDIO VISUAL

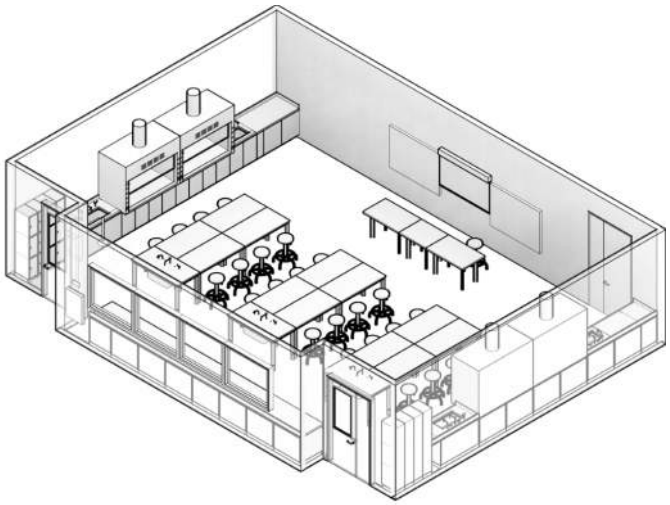
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☑
Distance Learning	☐
Other:	☑ Chalkboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 06.210.0007

Room Name	Flexible Teaching Lab - Dry Teaching
Function Location:	06 - Material Sciences and Engineering / 210 - Class Laboratory
Room Data Status	From TL_FLEX-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	1,290.00	Borrowed Light	Control
User Room Number		Actual	1,376.79	From Model Department	Material Sciences and Engineering
Course Number(s)	MSE 120, 307, 368, BME 330, future BME electronics lab	Height:	0	From Model Phase	New Construction
		Perimeter:	150.17	Occupant	24
IFCID	12YEYRgfT3qflQWslNUz7u			Revit Model	UWEC-HOK-AR
Revit Level	LEVEL 2			Revit Sync Date	2021-04-29
				Space Type	Education-Teaching Lab
				UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 06.210.0007

CASEWORK

CASEWORK TYPE

Fixed Casework	☑
Movable Casework	☐
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

student workstations will need one fixed cabinet per seat to store student microscopes at point of use

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☑	(Qty: 0)
Other:	☐	

COMMENTS

students will be performing organ dissection at their workstations. Each workstation needs an articulate arc fume hood (ceiling mounted)

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

quiet fans please

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☑ (2)
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

wall mounted drying racks for glassware mounted above all sinks

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

weather resistant outlets
data and electric needed at teaching station in front

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

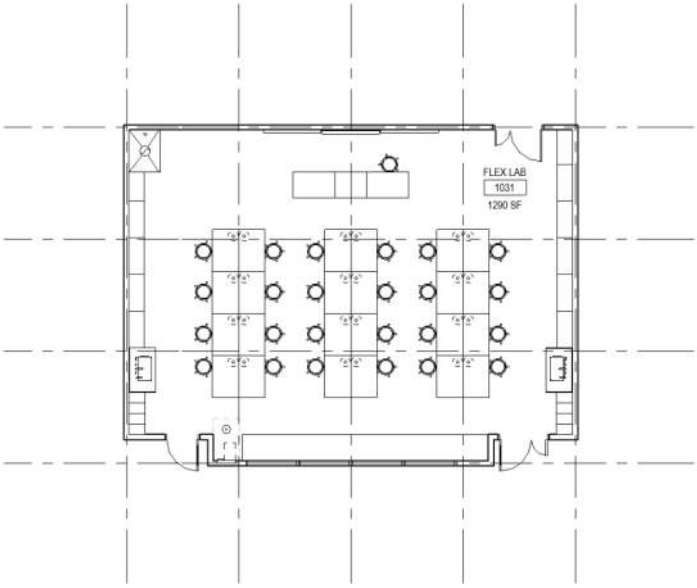
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

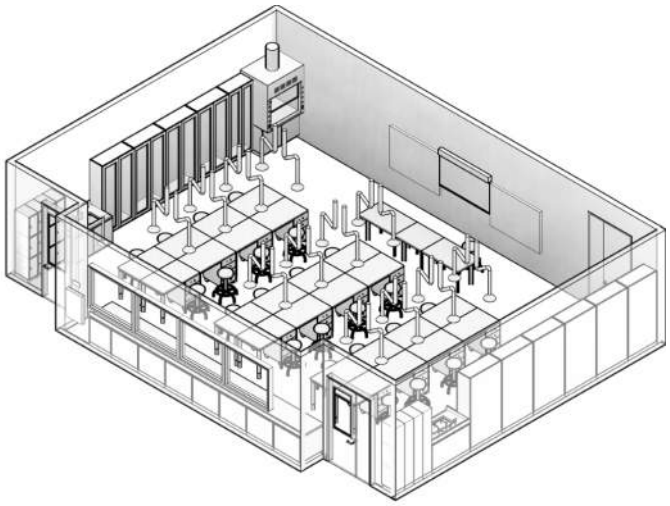
COMMENTS

two total displays at front of room (far left and right)
bulletin board for hanging posters

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 06.215.0001

Room Name	Materials Processing
Function Location:	06 - Material Sciences and Engineering / 215 - Class Laboratory Service
Room Data Status	Unique
Last modified	Thelen, Jessica, 4/12/2021 12:59 PM

Categorization

Room Number	
User Room Number	
IFCID	3DyGy1zfXCNOtJ6eV5gGWk
Revit Level	LEVEL 2

Areas

Programmed	600.00
Actual	799.65
Height:	0
Perimeter:	120.83
Feasibility NSF	600

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Ground Floor	Required
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-07
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA

Responsibility

Adjacency: ideally adjacent to 06.255.0003

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☑
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☑
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

HAZARD / SHIELDING

Type:

COMMENTS

doors 1&2 are a set of double doors with no center post

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 2)
Walk-in Fume Hoods:	☑	(Qty: 1)
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☑	(Qty: 0)
ADA Hoods:	☐	
Point Exhaust:	☑	(Qty: 4)
Other:	☐	

COMMENTS

walk in fume hood to encase equipment 13
Point ventilation at equipment 1, 3, 4, 7

EQUIPMENT

Item 1	☑	3 Zone furnace control (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☑	Haskris Chiller of Tube Furnace (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 3	☑	Tube Furnace STT-1700-3-6 (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 4	☑	VWR Vacuum Oven (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 5	☑	VWR Symphony Oven 300C (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 6	☑	Thermo linberg 1200C oven (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 7	☑	Lindberg/Blue Mtn BF51433PC-1 (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 8	☑	Binder Oven 300C (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 9	☑	Binder Oven 300C (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 10	☑	Die Press (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐

COMMENTS

Item 11 - Analytical Balance
Item 12 - Microscope
Item 13 - Melter - RDO Model LC12
Item 14 - Power Cut 10x Cut-off Saw
Item 15 - Rolling Mill
Item 16 - Olympus miscroscope BX51TRF-6
Item 17 - Metallographic Dry Box
Item 18 - Critical Point Drier EMS850
Item 19 - Laboratory Mixing Extruder

EQUIPMENT

COMMENTS

Item 20 - GS-5T Injection Molding Press
Item 21 - Buehler Vibratory Polisher
Item 22 - Vibromet 2 Vibratory Polisher
Item 23 - MetPrep 3 Automatic Polisher
Item 24 - MetPrep 3 Automatic Polisher
Item 25 - M-prep 5 manual Polisher
Item 26 - M-prep 5 manual Polisher
Item 27 - Metprep 3 grinder/polisher
Item 28 - Twinprep 5 grinder/polisher
item 29 - Twinprep 5 grinder/polisher
Item 30 - Twinprep 5 grinder/polisher
Item 31 - TechPress 2 Mounting press
Item 32 - TechPress 2 Mounting press
Item 33 - TechPress 2 Hydrolic-pneumati
Item 34 - Techcut 4 - Diamond Slow-saw

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:
Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☑
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☑
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☑ Dry air
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☑ (0)
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☑
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☑
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☑
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 06.215.0002

Room Name	Storage
Function Location:	06 - Material Sciences and Engineering / 215 - Class Laboratory Service
Room Data Status	From TL_SUPT-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number
User Room Number

Areas

Programmed	600.00
Actual	0.00
Height:	0
Perimeter:	0
Feasibility NSF	200

Groups / Classifications / Status

Borrowed Light	No Light
Ground Floor	Required
Occupant	1
Space Type	Education-Teaching Lab Support
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA

Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 06.215.0003

Room Name	Support Alcove
Function Location:	06 - Material Sciences and Engineering / 215 - Class Laboratory Service
Room Data Status	Unique
Last modified	Ivey, David, 2/5/2021 1:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	No Light
User Room Number		Actual	0.00	Occupant	0
		Height:	0	UWEC FICM Number	215 - Class Laboratory Service
		Perimeter:	0		

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Name	Teaching - Tissue Culture Lab
Function Location:	06 - Material Sciences and Engineering / 215 - Class Laboratory Service
Room Data Status	From TL_SPRT-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	228.00	Borrowed Light	Control
User Room Number		Actual	234.00	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbfk	Height:	0	Occupant	4
Revit Level	LEVEL 3	Perimeter:	63	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-06
				Space Type	Education-Teaching Lab Support
				UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA

Responsibility

Adjacency: connected to flex teaching lab BME core, near biology would be a plus

COMMENTS

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

ARCHITECTURAL

COMMENTS

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☑
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐	
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☑	(Qty: 2) Size: 78x36x84
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☑	CO2 incubator (Qty: 2)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☑	Refrigerator (Qty: 1)	Vib. Sens. ☐	Vib. Cause ☐
Item 3	☑	-80 Freezer (Qty: 1)	Vib. Sens. ☐	Vib. Cause ☐
Item 4	☑	Autoclave (Qty: 1)	Vib. Sens. ☐	Vib. Cause ☐
Item 5	☑	LN2 Dewar (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☑
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☑
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

CA and LN2 can be cylinder

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☑
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Incubator and Freezer on UPS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Name	Teaching - Tissue Culture Lab
Function Location:	06 - Material Sciences and Engineering / 215 - Class Laboratory Service
Room Data Status	From TL_SPRT-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	2n8vGMyaP8fwASZkHsKbfj
Revit Level	LEVEL 3

Areas

Programmed	228.00
Actual	234.00
Height:	0
Perimeter:	63

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	4
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab Support
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA

Responsibility	
Adjacency	connected to flex teaching lab BME core, near biology would be a plus

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☑
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐	
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☑	(Qty: 2) Size: 78x36x84
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☑	CO2 incubator (Qty: 2)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☑	Refrigerator (Qty: 1)	Vib. Sens. ☐	Vib. Cause ☐
Item 3	☑	-80 Freezer (Qty: 1)	Vib. Sens. ☐	Vib. Cause ☐
Item 4	☑	Autoclave (Qty: 1)	Vib. Sens. ☐	Vib. Cause ☐
Item 5	☑	LN2 Dewar (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☑
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☑
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

CA and LN2 can be cylinder

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☑
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Incubator and Freezer on UPS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 06.215.0006

Room Name	Computer Lab
Function Location:	06 - Material Sciences and Engineering / 215 - Class Laboratory Service
Room Data Status	From TL_COMP-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization

Room Number	
User Room Number	
IFCID	12YEYRgfT3qflQWslNUz7p
Revit Level	LEVEL 2

Areas

Programmed	960.00
Actual	1,045.38
Height:	0
Perimeter:	129.33
Feasibility NSF	1,800

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Material Sciences and Engineering
From Model Phase	New Construction
Occupant	32
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☑
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☑
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 06.215.0006

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

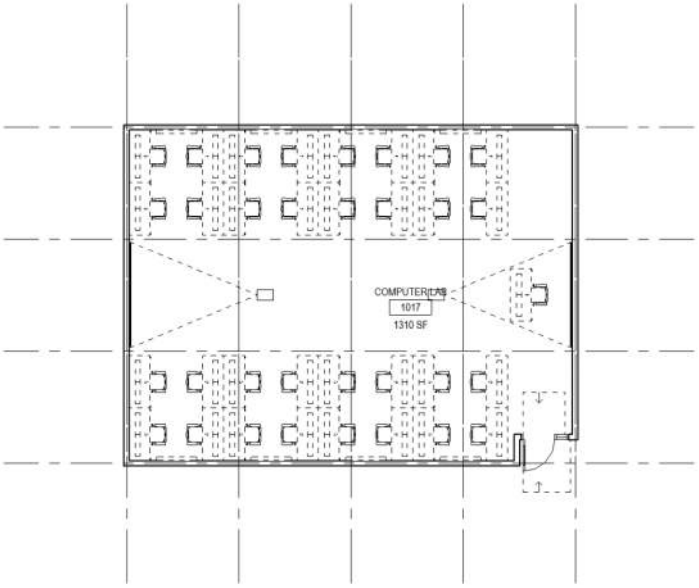
AUDIO VISUAL

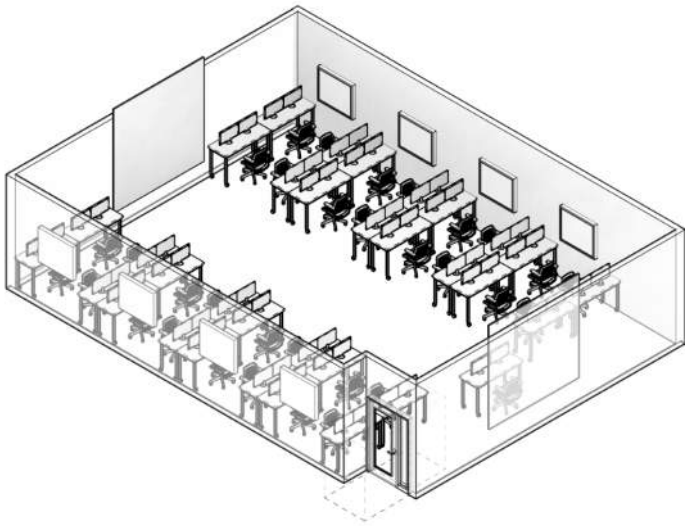
Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☑
Distance Learning	☑
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 06.250.0001

Room Name	Biomedical Engineering Capstone
Function Location:	06 - Material Sciences and Engineering / 250 - Research Laboratory
Room Data Status	Unique
Last modified	Ivey, David, 2/5/2021 1:14 PM

Categorization	
Room Number	
User Room Number	

Areas	
Programmed	0.00
Actual	0.00
Height:	0
Perimeter:	0
Feasibility NSF	1,800

Groups / Classifications / Status	
Borrowed Light	Control
Occupant	24
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 06.250.0003

Room Name	Biomedical Engineering Wet Bench Research - Flex Room
Function Location:	06 - Material Sciences and Engineering / 250 - Research Laboratory
Room Data Status	From RL_WET-H
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	114.00	Borrowed Light	Control
User Room Number		Actual	100.40	From Model Department	Material Sciences and Engineering
IFCID	3DyGy1zfXCNOtJ6eV5gGWg	Height:	0	From Model Phase	New Construction
Revit Level	LEVEL 2	Perimeter:	40.08	Occupant	0
				Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-29
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Refrigerator/Freezer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☑	Computer Station (Qty: 2)	Vib. Sens. ☐	Vib. Cause ☐
Item 3	☐			
Item 4	☐			
Item 5	☐			
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 06.250.0004

Room Name	Biomedical Engineering Wet Bench Research - Flex Room
Function Location:	06 - Material Sciences and Engineering / 250 - Research Laboratory
Room Data Status	From RL-WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	114.00	Borrowed Light	Control
User Room Number		Actual	83.45	From Model Department	Material Sciences and Engineering
IFCID	3DyGy1zfXCNOtJ6eV5gGWc	Height:	0	From Model Phase	New Construction
Revit Level	LEVEL 2	Perimeter:	36.75	Occupant	0
				Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-29
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 06.250.0004

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

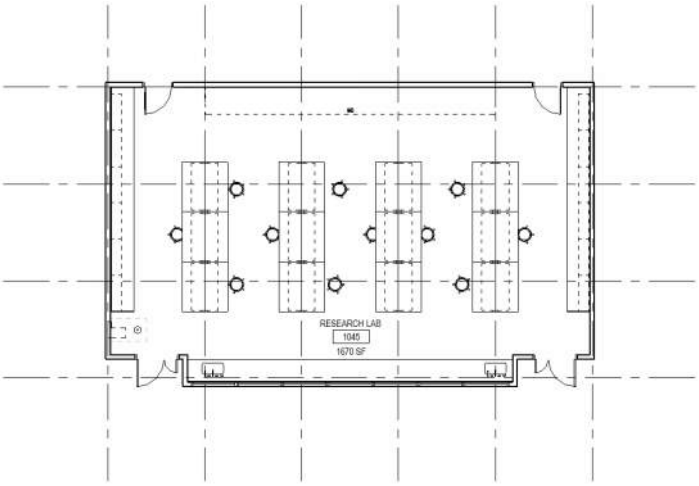
AUDIO VISUAL

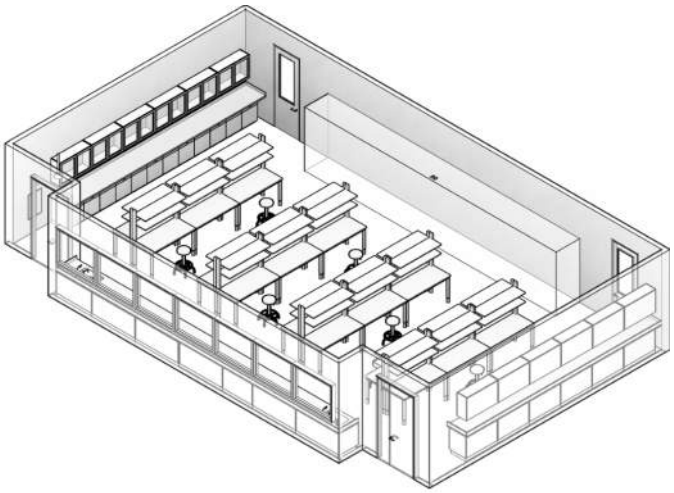
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 06.250.0005

Room Name	Biomedical Engineering Wet Bench Research - Open Lab
Function Location:	06 - Material Sciences and Engineering / 250 - Research Laboratory
Room Data Status	From RL-WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	498.72	From Model Department	Material Sciences and Engineering
IFCID	12YEYRgfT3qflQWslNUz3i	Height:	0	From Model Phase	New Construction
Revit Level	LEVEL 2	Perimeter:	95	Occupant	6
		Feasibility NSF	500	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-29
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 06.250.0005

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

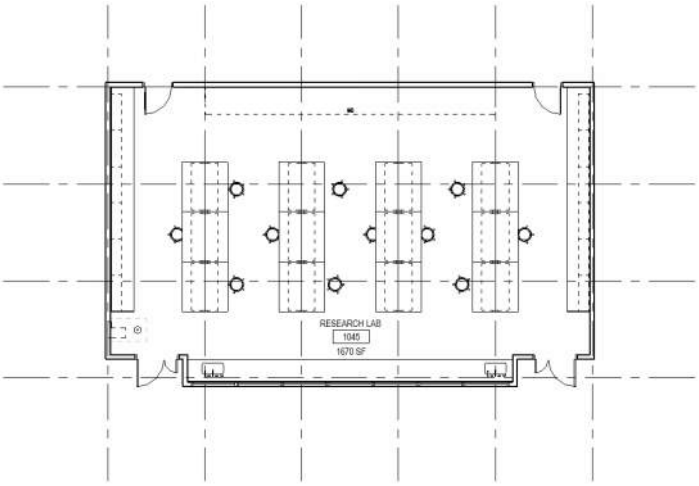
AUDIO VISUAL

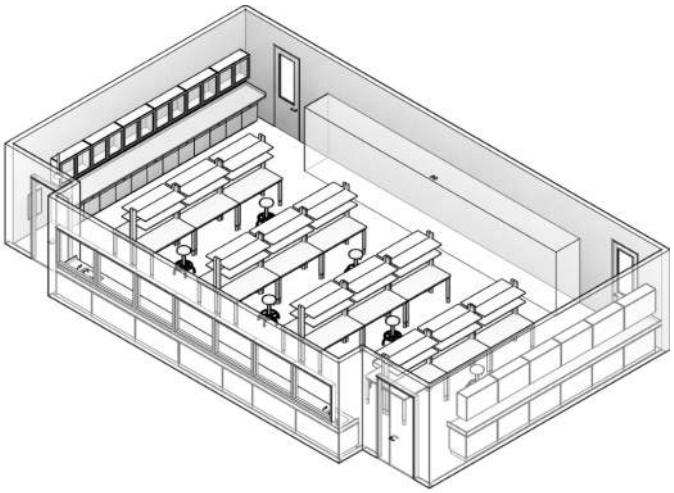
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 06.250.0006

Room Name	Biomedical Engineering Wet Bench Research - Open Lab
Function Location:	06 - Material Sciences and Engineering / 250 - Research Laboratory
Room Data Status	From RL_WET-G
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	12YEYRgfT3qflQWslNUz3f
Revit Level	LEVEL 2

Areas

Programmed	456.00
Actual	498.72
Height:	0
Perimeter:	95

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Material Sciences and Engineering
From Model Phase	New Construction
Occupant	6
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [x] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	IR Imaging System (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☑	LN2 Dewar (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 3	☐			
Item 4	☐			
Item 5	☐			
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☑
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

Nitrogen plumbed or cylinders

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 06.250.0006

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

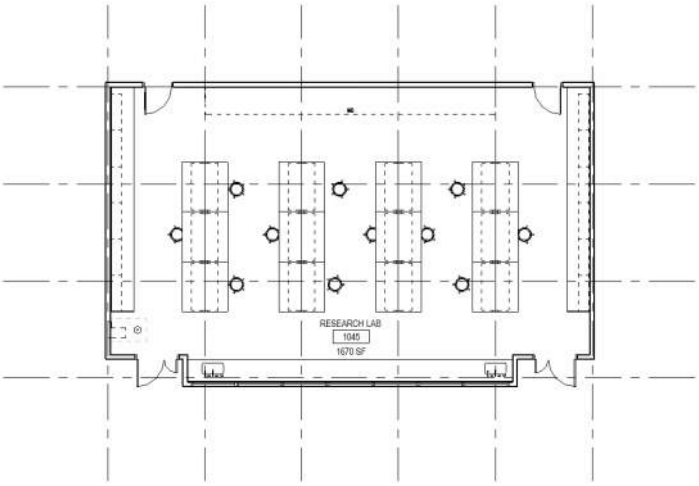
AUDIO VISUAL

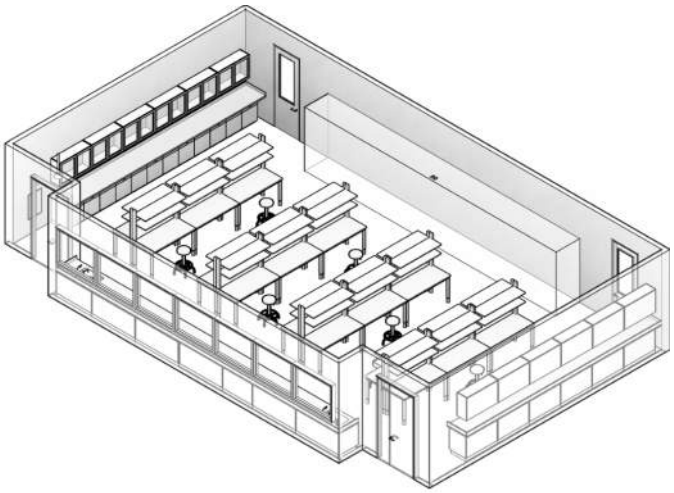
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 06.250.0007

Room Name	BME - Tissue Culture
Function Location:	06 - Material Sciences and Engineering / 250 - Research Laboratory
Room Data Status	Unique
Last modified	Ivey, David, 2/5/2021 1:14 PM

Categorization	
Room Number	
User Room Number	

Areas	
Programmed	0.00
Actual	0.00
Height:	0
Perimeter:	0

Groups / Classifications / Status	
Borrowed Light	Control
Occupant	0
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 06.250.0009

Room Name	Fabrication
Function Location:	06 - Material Sciences and Engineering / 250 - Research Laboratory
Room Data Status	Unique
Last modified	Ivey, David, 2/5/2021 1:14 PM

Categorization

Room Number	
User Room Number	
IFCID	35Rl25OcP2iODH9wAL$RjL
Revit Level	LEVEL 1

Areas

Programmed	200.00
Actual	195.56
Height:	0
Perimeter:	123.33

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Ground Floor	Required
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 06.250.0010

Room Name	Materials Science Computational
Function Location:	06 - Material Sciences and Engineering / 250 - Research Laboratory
Room Data Status	From RL_COMP-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization

Room Number	
User Room Number	
IFCID	3DyGy1zfXCNOtJ6eV5gGWY
Revit Level	LEVEL 2

Areas

Programmed	300.00
Actual	695.11
Height:	0
Perimeter:	107.83
Feasibility NSF	200

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Material Sciences and Engineering
From Model Phase	New Construction
Occupant	8
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Research-Specialty Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☑
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:
Type:
Material:

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☑
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboard

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 06.250.0011

Room Name	Materials Science Dry Bench Research
Function Location:	06 - Material Sciences and Engineering / 250 - Research Laboratory
Room Data Status	From RL_DRY-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	12YEYRgfT3qflQWslNUz3s
Revit Level	LEVEL 2

Areas

Programmed	800.00
Actual	843.58
Height:	0
Perimeter:	116.67
Feasibility NSF	500

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Material Sciences and Engineering
From Model Phase	New Construction
Occupant	2
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Research-Dry Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☑
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

need a hard flooring like terrazzo or hard tile

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑ No. of Outlets: at least 5 duplex
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 06.250.0012

Room Name	Materials Science Dry Bench Research
Function Location:	06 - Material Sciences and Engineering / 250 - Research Laboratory
Room Data Status	From RL_DRY-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	12YEYRgfT3qflQWslNUz3p
Revit Level	LEVEL 2

Areas

Programmed	800.00
Actual	843.58
Height:	0
Perimeter:	116.67
Feasibility NSF	500

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Material Sciences and Engineering
From Model Phase	New Construction
Occupant	2
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Research-Dry Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

This lab will primarily be used as a computer space for processing lab data, to setup and conduct table top experiments, and to layout organize and prepare samples for imaging, tensile testing, or other experimental work. Request fixed perimeter casework with overhead and under counter cabinets for storage. Lab is designed for 4 students to use simultaneously but samples may need to be stored for up to 12 students (currently have 11 in group). Movable interior tables to provide flexibility of use. Minimum 4 locations for desktop power but open to suggestions for location.

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

flooring to be hard finished surface like the tile in the hallways at Phillips Hall.

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☑	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

fixed at perimeter, movable at interior

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hydrogen/oxygen torch (Qty: 0) Size: 72"W Vib. Sens. ☐ Vib. Cause ☐ Notes: nearby gas cylinders
Item 2	☑	Table top drill press (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 3	☐	
Item 4	☐	
Item 5	☐	
Item 6	☐	
Item 7	☐	
Item 8	☐	
Item 9	☐	
Item 10	☐	

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

Don't need gases plumbed to this room but will need storage space for 4 gas cylinders (argon, helium, nitrogen, oxygen, hydrogen) and liquid nitrogen may be used in small quantities.

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

110V power strips along two perimeter walls above the counter

Some drop down power to central tables also required

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

card access for student researches

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 06.250.0013

Room Name	Materials Science Engineering Capstone
Function Location:	06 - Material Sciences and Engineering / 250 - Research Laboratory
Room Data Status	Unique
Last modified	Ivey, David, 2/5/2021 1:14 PM

Categorization	
Room Number	
User Room Number	

Areas	
Programmed	0.00
Actual	0.00
Height:	0
Perimeter:	0
Feasibility NSF	1,800

Groups / Classifications / Status	
Borrowed Light	Control
Occupant	24
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 06.250.0015

Room Name	Materials Science Wet Bench Research - Flex
Function Location:	06 - Material Sciences and Engineering / 250 - Research Laboratory
Room Data Status	From RL_WET-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	114.00	Borrowed Light	Control
User Room Number		Actual	94.81	From Model Department	Material Sciences and Engineering
IFCID	12YEYRgfT3qflQWslNUz4n	Height:	0	From Model Phase	New Construction
Revit Level	LEVEL 2	Perimeter:	39	Occupant	0
				Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-29
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency: mat sci wet bench research open lab

COMMENTS

picturing open space for chemical work and the flex space for data analysis and other non-chemical work. These are separate spaces

UTILIZATION

- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

ARCHITECTURAL

WALLS/PARTITIONS

- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION

- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING

- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE

- [x] Applied
- [ ] Integral

Material:

CEILINGS

- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1

Size: 3'-0" x 8'-0"

Type: 1/2 Vision Panel

Material: Wood

DOOR 2

Size: 4'-6" x 8'-0"

Type: 1/2 Vision Panel

Material: Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☐
Wall Cabinets	☐
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

need 2 tables for computers
need as many chairs and tables as can fit for student researchers

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑ Computer (Qty: 2)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐			
Item 3	☐			
Item 4	☐			
Item 5	☐			
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

no sinks needed for computer work

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 06.250.0016

Room Name	Materials Science Wet Bench Research - Flex
Function Location:	06 - Material Sciences and Engineering / 250 - Research Laboratory
Room Data Status	From RL_WET-F
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	12YEYRgfT3qflQWslNUz4o
Revit Level	LEVEL 2

Areas

Programmed	114.00
Actual	79.40
Height:	0
Perimeter:	35.67

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Material Sciences and Engineering
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency: Glogowski flex space

UTILIZATION

- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

This space used for student desk space or computers for data workup. No benchwork done here.

ARCHITECTURAL

WALLS/PARTITIONS

- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION

- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING

- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [x] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE

- [x] Applied
- [ ] Integral

Material:

CEILINGS

- [x] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1

Size: 3'-0" x 8'-0"

Type: 1/2 Vision Panel

Material: Wood

DOOR 2

Size: 4'-6" x 8'-0"

Type: 1/2 Vision Panel

Material: Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

2 computer stations
fit for student workspace

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

Access details TBD

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Name	Materials Science Wet Bench Research - Open Lab
Function Location:	06 - Material Sciences and Engineering / 250 - Research Laboratory
Room Data Status	From RL_WET-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	439.48	From Model Department	Material Sciences and Engineering
IFCID	12YEYRgfT3qflQWslNUz3$	Height:	0	From Model Phase	New Construction
Revit Level	LEVEL 2	Perimeter:	91.28	Occupant	6
		Feasibility NSF	500	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-29
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility	
Adjacency	mat sci wet bench research, polymer suite, mse wet teaching lab

COMMENTS

away from chemistry

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☑
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

need as much benchtop space as possible
need one floor to ceiling cabinet
need wall-mounted storage on walls (not center benches)
need under benchtop drawers and shelves
need separate acid and base storage

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 0) Size: 72"x36"
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

hoods require water, air, vacuum, and drains

EQUIPMENT

Item 1	☑	Upright Refrigerator/Freezer (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 2	☑	Flammable cabinet (Qty: 2) Vib. Sens. ☐ Vib. Cause ☐
Item 3	☑	Benchtop Centrifuge (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 4	☑	Benchtop sonic bath (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 5	☑	Rotovap (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: next to sink and vented to hood
Item 6	☑	Benchtop oven (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: for drying glassware
Item 7	☐	
Item 8	☐	
Item 9	☐	
Item 10	☐	

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

need house N2 gas or space for cylinders

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

need electrical on perimeter and at any islands

Room Function Number: 06.250.0017

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

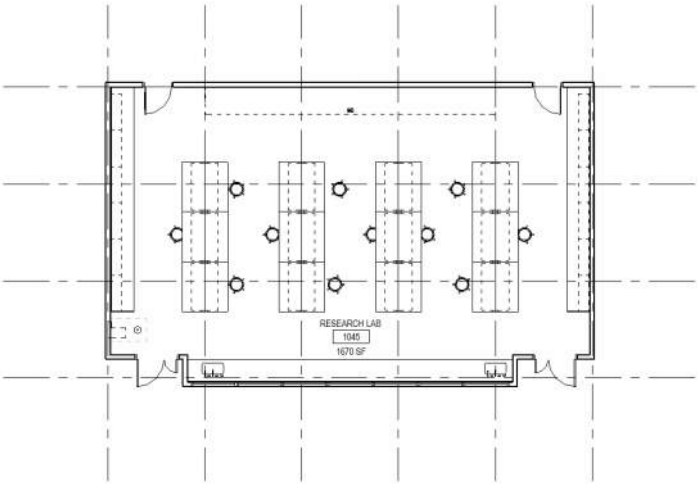
AUDIO VISUAL

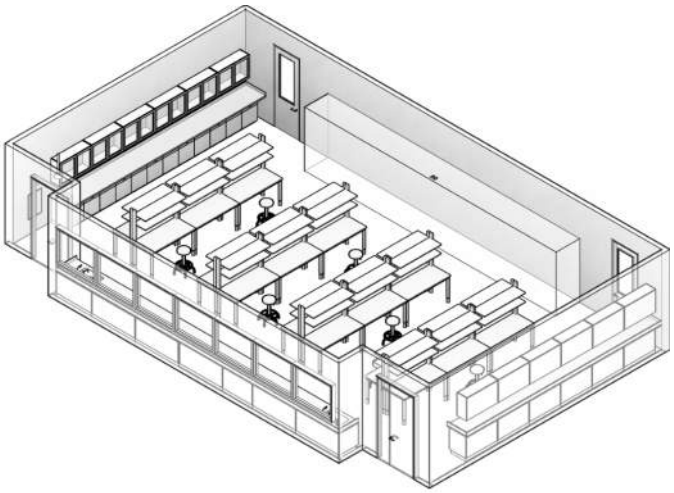
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 06.250.0018

Room Name	Materials Science Wet Bench Research - Open Lab
Function Location:	06 - Material Sciences and Engineering / 250 - Research Laboratory
Room Data Status	From RL_WET-E
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	12YEYRgfT3qflQWslNUz3u
Revit Level	LEVEL 2

Areas

Programmed	456.00
Actual	431.52
Height:	0
Perimeter:	90.78
Feasibility NSF	500

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Material Sciences and Engineering
From Model Phase	New Construction
Occupant	6
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency: MSE teaching labs, MSE imaging suite, Glogowski research lab

COMMENTS

UTILIZATION

- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

ARCHITECTURAL

WALLS/PARTITIONS

- [ ] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION

- [ ] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING

- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [x] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE

- [ ] Applied
- [ ] Integral

Material:

CEILINGS

- [x] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

LAYOUT - similar to 021, no need for shelves at benches, remove sinks from S wall and replace with computer station, 2nd computer station next to first.
2 fumehoods along w wall, 1 sink on either side of hood, replace half of perimeter cabinets with floor to ceiling cabinets
Need 1 vented chemical storage

CASEWORK

CASEWORK TYPE

Fixed Casework	☑
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☐
Lockable Cabinets	☑
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

fixed at perimeter, movable in middle
also need ceiling height cabinets

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 2) Size: 72"W
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

hoods include CW, air, vacuum, Nitrogen

EQUIPMENT

Item 1	☑	Vented chemical storage (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐			
Item 3	☐			
Item 4	☐			
Item 5	☐			
Item 6	☐			
Item 7	☐			
Item 8	☐			
Item 9	☐			
Item 10	☐			

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☑
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☑ (2)
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑ No. of Outlets: 6 duplex at perimeter
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 06.250.0018

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

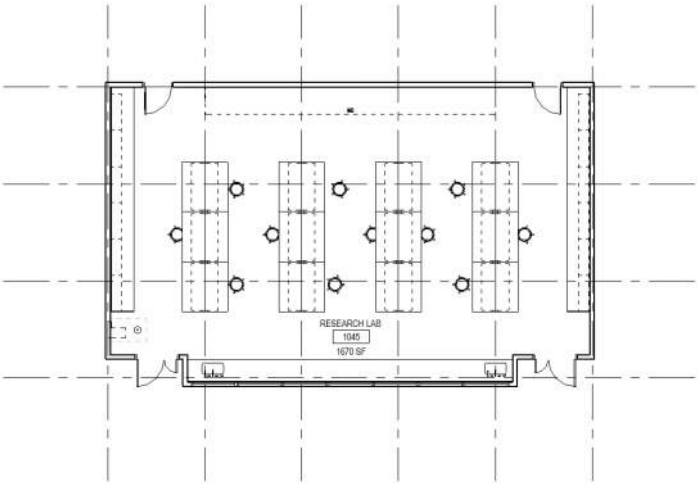
AUDIO VISUAL

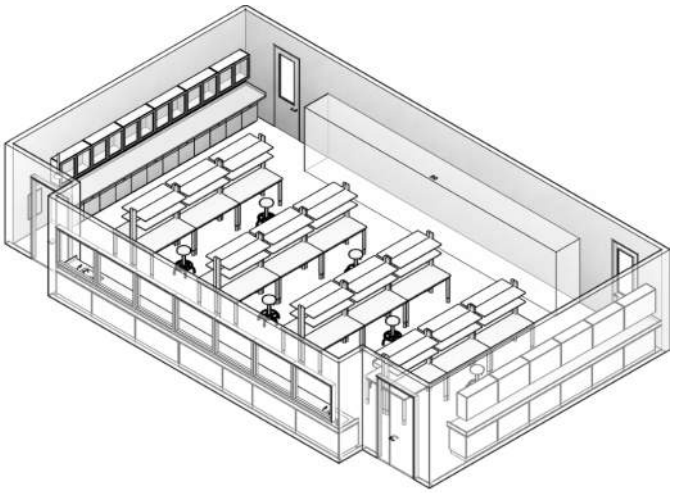
Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Chalkboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 06.255.0001

Room Name	Materials Science Center - Elemental Analysis
Function Location:	06 - Material Sciences and Engineering / 255 - Research Laboratory Service
Room Data Status	From RL_MSE_Element Analysis
Last modified	Niewoehner, Daniel, 4/23/2021 10:30 AM

Categorization

Room Number	
User Room Number	
IFCID	35Rl25OcP2iODH9wAL$Rky
Revit Level	LEVEL 1

Areas

Programmed	660.00
Actual	1,601.25
Height:	0
Perimeter:	164.67
Feasibility NSF	660

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Ground Floor	Required
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Lab Support
UWEC FICM Number	255 - Research Laboratory Service
Vibration Requirements	D - VC-D

USER DATA

ROOM DATA

Responsibility	
Adjacency	Part of Elemental Analysis and adjacent to 06.255.0003

COMMENTS

this room will be subdivided into several rooms

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☑
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☑
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☑ clean room ceiling tiles
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

HAZARD / SHIELDING

Type:	cant be near NMR, elevators, large power conduits

COMMENTS

open ceilings everywhere EXCEPT rooms with instruments 10 and 12 (clean room ceiling tiles)

Door 1 to chiller and tank storage
Door 2&3 to hallway, double door no center post
Door 4 - 3'x8', 1/2 vision panel, material resistant to chlorine and VHP, to rooms for equipment 10 and 12
Door 5 - 3'x8', 1/2 vision panel, wood, to polymer annex room

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

walls and cabinetry in rooms with equipment 10 and 12 need to be clean room compatible (smooth, impervious, Dagard paneling or 2 pot epoxy coated surfaces)

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 2)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐

Room Function Number: 06.255.0001

EXHAUST DEVICES

Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☑ (Qty: 2)
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☑ (Qty: 2)
Other:	☐

COMMENTS

2 fume hoods near equipment 12, 1 in polymer annex room
Hori lam Flow Hoods near equipment 9 and 10
Point exhaust at equipment 9 and 13

EQUIPMENT

Item 1	☑ D8 Discover Diffractometer (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 2	☑ Haskris Chiller (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 3	☑ S8 Tiger Seq wavelength X-Ray (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 4	☑ Haskris R175 chiller (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 5	☑ Cary 60 UV-Vis Spectrometer (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 6	☑ Perkinelmer LS55 (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 7	☑ Laminar Flow Hood (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 8	☑ Ninton X-Ray XL3T Flurenscence (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 9	☑ Agilent Spectrometer MPAES (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: also Nitrogen Generator for MPAES
Item 10	☑ Finnigan high Res Element2 SC-E2 (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: also Sampler for Element2 SC-E2

COMMENTS

Item 11 - Haskris chiller for ICP-MS
Item 12 - Anton Par Multiwave Pro
Item 13 - Millipore Water System
Item 14 - Phoibos 150 MCD Energy Analize - XPS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

Equipment in this room is very sensitive to temperature, temperature stability, humidity and humidity stability. it needs to be on a separate HVAC system that is stable at <2C/hr and 50%-60% RH. The vibration needs to be at most 10 microns peak to peak for frequencies less than 30 HZ. E/M fields must be below 5mT. particles over 5 microns must be limited to 100,000/ft3.

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☑
Argon (Ar):	☑
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☑ UHP, N2(g)
Special Gas 2 (SG2):	☑ Methane/Ar mix
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☑ (3)
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☑
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

2 safety showers (floor drain at each), 2 eye wash

1 eye wash and safety shower neds to be in main room (near equipment 12) and one set in the polymer annex room

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☑
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

UPS used with equipment 1, 2, 3, 4, 10, 11, 14

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

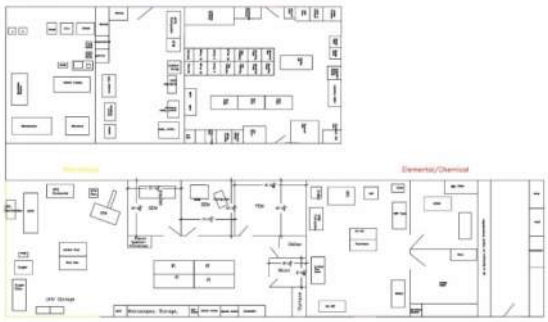
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 06.255.0001



Room Function Number: 06.255.0002

Room Name	Materials Science Center - Mechanical Chemical Molecular
Function Location:	06 - Material Sciences and Engineering / 255 - Research Laboratory Service
Room Data Status	From RL_MSE_Imaging 2
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	35Rl25OcP2iODH9wAL$Rks
Revit Level	LEVEL 1

Areas

Programmed	1,700.00
Actual	1,364.40
Height:	0
Perimeter:	171
Feasibility NSF	1,200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Ground Floor	Required
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Research-Lab Support
UWEC FICM Number	255 - Research Laboratory Service
Vibration Requirements	D - VC-D

USER DATA

ROOM DATA

Responsibility	
Adjacency	other MSE rooms 06.255.0003

COMMENTS

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☑
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

HAZARD / SHIELDING

Type:	cant be near NMR, elevators, large power conduits

COMMENTS

4th door to be 3'0"x8'0", 1/2 vision panel, wood
Doors 1&2 are a set of double doors with no center post and are from main hallway
Doors 3&4 go into storage area

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 1)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐

EXHAUST DEVICES

Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑ Nikon Confocal Microscope (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☑ Confocal Raman Microscope - Horiba (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 3	☑ Ultra Microtome 970224 (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 4	☑ Triboindenter TI-900 (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 5	☑ Hardness Tester - Wilson (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 6	☑ Rockwell Hardness Tester (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 7	☑ Electromechanical Instrument - Instron (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 8	☑ Impact Tester (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 9	☑ FormLabs form 3 - SLA 3D printer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 10	☑ FormLabs Form 2 - SLA 3D printer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐

COMMENTS

Item 11 - FormLabs Form 2 - SLA 3D printer
Item 12 - Ultimaker S5 - 3D printer
Item 13 - Ultimaker S5 - 3D printer
Item 14 - Ultimaker S5 - 3D printer
Item 15 - Ultimaker S5 - 3D printer
Item 16 - Color 3D printer
Item 17 - Stratasy F170 printer
Item 18 - uPrint 3-D printer
Item 19 - MarkOne 3-D printer
Item 20 - Biomechanics
Item 21 - Medical imaging
Item 22 - Biomedical sensors

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:
Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO_2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N_2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O_2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN_2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☑ (1)
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

floor drain for the safety shower

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

dimmable lighting needed in the sub-room with equipment 1

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

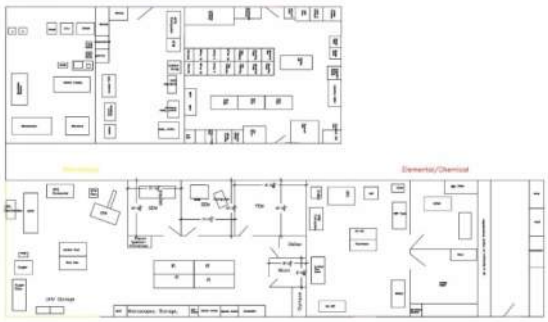
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 06.255.0002



Room Function Number: 06.255.0003

Room Name	Materials Science Center - Microscopy Instrument Suite
Function Location:	06 - Material Sciences and Engineering / 255 - Research Laboratory Service
Room Data Status	From RL_MSE_Imaging
Last modified	Niewoehner, Daniel, 4/23/2021 10:32 AM

Categorization

Room Number	
User Room Number	
IFCID	35Rl25OcP2iODH9wAL$Rkp
Revit Level	LEVEL 1

Areas

Programmed	1,350.00
Actual	2,058.00
Height:	0
Perimeter:	193.67
Feasibility NSF	1,350

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Ground Floor	Required
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Lab Support
UWEC FICM Number	255 - Research Laboratory Service
Vibration Requirements	D - VC-D

USER DATA

ROOM DATA

Responsibility	
Adjacency	Part of Imaging, adjacent to MSE rooms 06.255.0001, 06.255.0002, 06.215.0001

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

this room must be on first floor to avoid problems with vibration.

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☑
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	4'-6" x 8'-0"
Type:	Standard
Material:	Wood

HAZARD / SHIELDING

Type:	cant be near NMR, elevators, large power conduits

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐

EXHAUST DEVICES

Polypropylene Hoods: ☐
Canopy Hoods: ☐
ADA Hoods: ☐
Point Exhaust: ☐
Other: ☐

COMMENTS

EQUIPMENT

Item 1	☑ Hitatchi Variable Pressure SEM S3400 (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☑ Hitachi S4500 FE-SEM (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 3	☑ Haskris Chiller (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 4	☑ Denton Desk TAR001-0158-120V (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 5	☑ JEOL JEM-2010/SEG/SIP/DP (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 6	☑ Haskris Chiller for TEM (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 7	☑ OLS4100 Laser conf System (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 8	☑ Scanning Auger nanoprobe 680 (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 9	☑ FTIR Spectrometer IS50r (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 10	☑ FTIR Microscope (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐

COMMENTS

Item 11 - Agilent Cary 620 FTIR Microscope
Item 12 - Atomic force Microscope (Asylum R)
Item 13 - Auto 36 Vacuum base - Evaporator
Item 14 - Denton Desk TAR001-0158-120V
Item 15 - KW-4A Spin Coater
Item 16 - Olympus BX51 Microscope
Item 17 - Head system for Tunneling Micr-STM

most instruments are sensitive to vibration, E/M fields, temperature control and stability, and himidity control and stability. These instruments need to be on a separate HVAC system that does not go through swings in the spring and fall.

E/M fields < 70nanoT, vibration < 1 micron peak to peak @ 2-10 HZ, Relative humidity STABLE at <60% year round. Equipment 2 having independent grounding < 100ohms

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:
Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection: ☐
Other: ☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☐
Argon (Ar):	☑
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☑
Special Gas 1 (SG1):	☑ SF6
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☑ (0)
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☑
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

UPS used with equipment 1, 2, 5, 6, 8, and 16
Equipment 1, 2, 5 must have magnetic flux less than 140, 70, and 100 nanoTesla respectively

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

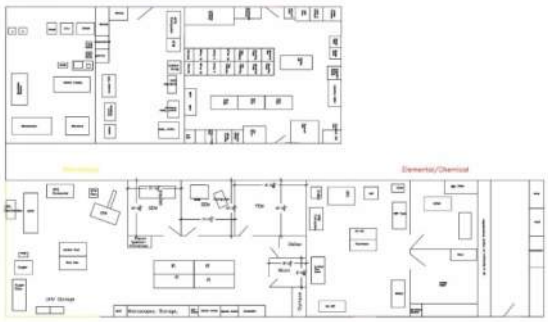
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS	door 4, closest to item 5, double door, 4'6"x8'0', no window panel, wood

Room Function Number: 06.255.0003



Room Function Number: 06.255.0004

Room Name	Materials Science Center - TEM
Function Location:	06 - Material Sciences and Engineering / 255 - Research Laboratory Service
Room Data Status	From RL_MSE_Imaging
Last modified	Niewoehner, Daniel, 4/23/2021 10:32 AM

Categorization

Room Number	
User Room Number	
IFCID	35Rl25OcP2iODH9wAL$Rkp
Revit Level	LEVEL 1

Areas

Programmed	220.00
Actual	2,058.00
Height:	0
Perimeter:	193.67
Feasibility NSF	220

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Ground Floor	Required
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Lab Support
UWEC FICM Number	255 - Research Laboratory Service
Vibration Requirements	D - VC-D

USER DATA

ROOM DATA

Responsibility	
Adjacency	Part of Imaging, adjacent to MSE rooms 06.255.0001, 06.255.0002, 06.215.0001

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

this room must be on first floor to avoid problems with vibration.

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☑
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	4'-6" x 8'-0"
Type:	Standard
Material:	Wood

HAZARD / SHIELDING

Type:	cant be near NMR, elevators, large power conduits

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐

EXHAUST DEVICES

Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑ Hitatchi Variable Pressure SEM S3400 (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☑ Hitachi S4500 FE-SEM (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 3	☑ Haskris Chiller (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 4	☑ Denton Desk TAR001-0158-120V (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 5	☑ JEOL JEM-2010/SEG/SIP/DP (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 6	☑ Haskris Chiller for TEM (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 7	☑ OLS4100 Laser conf System (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 8	☑ Scanning Auger nanoprobe 680 (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 9	☑ FTIR Spectrometer IS50r (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 10	☑ FTIR Microscope (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐

COMMENTS

Item 11 - Agilent Cary 620 FTIR Microscope
Item 12 - Atomic force Microscope (Asylum R)
Item 13 - Auto 36 Vacuum base - Evaporator
Item 14 - Denton Desk TAR001-0158-120V
Item 15 - KW-4A Spin Coater
Item 16 - Olympus BX51 Microscope
Item 17 - Head system for Tunneling Micr-STM

most instruments are sensitive to vibration, E/M fields, temperature control and stability, and himidity control and stability. These instruments need to be on a separate HVAC system that does not go through swings in the spring and fall.

E/M fields < 70nanoT, vibration < 1 micron peak to peak @ 2-10 HZ, Relative humidity STABLE at <60% year round. Equipment 2 having independent grounding < 100ohms

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☐
Argon (Ar):	☑
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☑
Special Gas 1 (SG1):	☑ SF6
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☑ (0)
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☑
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

UPS used with equipment 1, 2, 5, 6, 8, and 16
Equipment 1, 2, 5 must have magnetic flux less than 140, 70, and 100 nanoTesla respectively

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

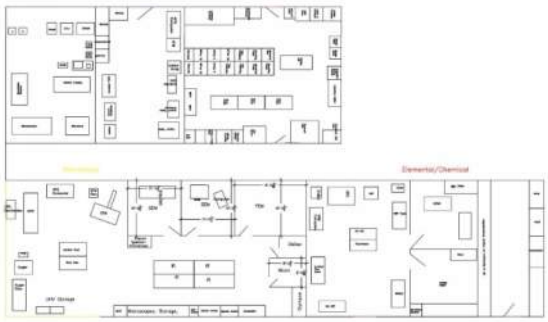
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS	door 4, closest to item 5, double door, 4'6"x8'0', no window panel, wood

Room Function Number: 06.255.0004



Room Function Number: 06.255.0005

Room Name	Materials Science Center - SEM
Function Location:	06 - Material Sciences and Engineering / 255 - Research Laboratory Service
Room Data Status	From RL_MSE_Imaging
Last modified	Niewoehner, Daniel, 4/23/2021 10:32 AM

Categorization

Room Number	
User Room Number	
IFCID	35Rl25OcP2iODH9wAL$Rkp
Revit Level	LEVEL 1

Areas

Programmed	150.00
Actual	2,058.00
Height:	0
Perimeter:	193.67
Feasibility NSF	150

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Ground Floor	Required
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Lab Support
UWEC FICM Number	255 - Research Laboratory Service
Vibration Requirements	D - VC-D

USER DATA

ROOM DATA

Responsibility	
Adjacency	Part of Imaging, adjacent to MSE rooms 06.255.0001, 06.255.0002, 06.215.0001

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

this room must be on first floor to avoid problems with vibration.

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☑
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	4'-6" x 8'-0"
Type:	Standard
Material:	Wood

HAZARD / SHIELDING

Type:	cant be near NMR, elevators, large power conduits

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐

EXHAUST DEVICES

Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑ Hitatchi Variable Pressure SEM S3400 (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☑ Hitachi S4500 FE-SEM (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 3	☑ Haskris Chiller (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 4	☑ Denton Desk TAR001-0158-120V (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 5	☑ JEOL JEM-2010/SEG/SIP/DP (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 6	☑ Haskris Chiller for TEM (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 7	☑ OLS4100 Laser conf System (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 8	☑ Scanning Auger nanoprobe 680 (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 9	☑ FTIR Spectrometer IS50r (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 10	☑ FTIR Microscope (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐

COMMENTS

Item 11 - Agilent Cary 620 FTIR Microscope
Item 12 - Atomic force Microscope (Asylum R)
Item 13 - Auto 36 Vacuum base - Evaporator
Item 14 - Denton Desk TAR001-0158-120V
Item 15 - KW-4A Spin Coater
Item 16 - Olympus BX51 Microscope
Item 17 - Head system for Tunneling Micr-STM

most instruments are sensitive to vibration, E/M fields, temperature control and stability, and himidity control and stability. These instruments need to be on a separate HVAC system that does not go through swings in the spring and fall.

E/M fields < 70nanoT, vibration < 1 micron peak to peak @ 2-10 HZ, Relative humidity STABLE at <60% year round. Equipment 2 having independent grounding < 100ohms

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☐
Argon (Ar):	☑
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☑
Special Gas 1 (SG1):	☑ SF6
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☑ (0)
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☑
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

UPS used with equipment 1, 2, 5, 6, 8, and 16
Equipment 1, 2, 5 must have magnetic flux less than 140, 70, and 100 nanoTesla respectively

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

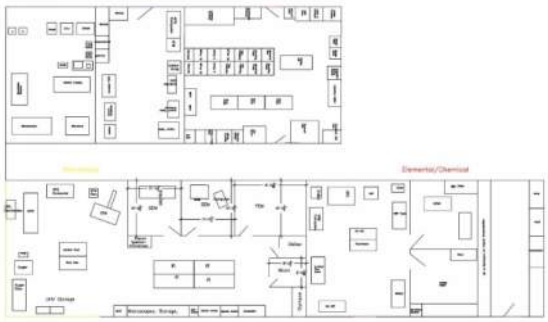
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS	door 4, closest to item 5, double door, 4'6"x8'0', no window panel, wood

Room Function Number: 06.255.0005



Room Function Number: 06.255.0006

Room Name	Materials Science Center - SEM
Function Location:	06 - Material Sciences and Engineering / 255 - Research Laboratory Service
Room Data Status	From RL_MSE_Imaging
Last modified	Niewoehner, Daniel, 4/23/2021 10:32 AM

Categorization

Room Number	
User Room Number	
IFCID	35Rl25OcP2iODH9wAL$Rkp
Revit Level	LEVEL 1

Areas

Programmed	150.00
Actual	2,058.00
Height:	0
Perimeter:	193.67
Feasibility NSF	150

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Ground Floor	Required
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Lab Support
UWEC FICM Number	255 - Research Laboratory Service
Vibration Requirements	D - VC-D

USER DATA

ROOM DATA

Responsibility	
Adjacency	Part of Imaging, adjacent to MSE rooms 06.255.0001, 06.255.0002, 06.215.0001

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

this room must be on first floor to avoid problems with vibration.

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☑
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	4'-6" x 8'-0"
Type:	Standard
Material:	Wood

HAZARD / SHIELDING

Type:	cant be near NMR, elevators, large power conduits

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐

EXHAUST DEVICES

Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑ Hitatchi Variable Pressure SEM S3400 (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☑ Hitachi S4500 FE-SEM (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 3	☑ Haskris Chiller (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 4	☑ Denton Desk TAR001-0158-120V (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 5	☑ JEOL JEM-2010/SEG/SIP/DP (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 6	☑ Haskris Chiller for TEM (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 7	☑ OLS4100 Laser conf System (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 8	☑ Scanning Auger nanoprobe 680 (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 9	☑ FTIR Spectrometer IS50r (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 10	☑ FTIR Microscope (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐

COMMENTS

Item 11 - Agilent Cary 620 FTIR Microscope
Item 12 - Atomic force Microscope (Asylum R)
Item 13 - Auto 36 Vacuum base - Evaporator
Item 14 - Denton Desk TAR001-0158-120V
Item 15 - KW-4A Spin Coater
Item 16 - Olympus BX51 Microscope
Item 17 - Head system for Tunneling Micr-STM

most instruments are sensitive to vibration, E/M fields, temperature control and stability, and himidity control and stability. These instruments need to be on a separate HVAC system that does not go through swings in the spring and fall.

E/M fields < 70nanoT, vibration < 1 micron peak to peak @ 2-10 HZ, Relative humidity STABLE at <60% year round. Equipment 2 having independent grounding < 100ohms

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☐
Argon (Ar):	☑
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☑
Special Gas 1 (SG1):	☑ SF6
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☑ (0)
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☑
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

UPS used with equipment 1, 2, 5, 6, 8, and 16
Equipment 1, 2, 5 must have magnetic flux less than 140, 70, and 100 nanoTesla respectively

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

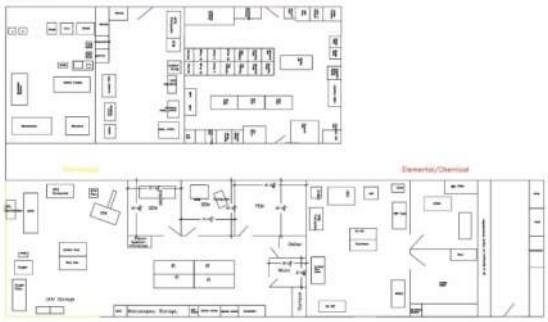
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS	door 4, closest to item 5, double door, 4'6"x8'0', no window panel, wood

Room Function Number: 06.255.0006



Room Function Number: 06.255.0007

Room Name	Materials Science Center - Chiller
Function Location:	06 - Material Sciences and Engineering / 255 - Research Laboratory Service
Room Data Status	From RL_MSE_Imaging
Last modified	Niewoehner, Daniel, 4/23/2021 10:32 AM

Categorization

Room Number	
User Room Number	
IFCID	35Rl25OcP2iODH9wAL$Rkp
Revit Level	LEVEL 1

Areas

Programmed	50.00
Actual	2,058.00
Height:	0
Perimeter:	193.67
Feasibility NSF	50

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Ground Floor	Required
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Lab Support
UWEC FICM Number	255 - Research Laboratory Service
Vibration Requirements	D - VC-D

USER DATA

ROOM DATA

Responsibility	
Adjacency	Part of Imaging, adjacent to MSE rooms 06.255.0001, 06.255.0002, 06.215.0001

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

this room must be on first floor to avoid problems with vibration.

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☑
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	4'-6" x 8'-0"
Type:	Standard
Material:	Wood

HAZARD / SHIELDING

Type:	cant be near NMR, elevators, large power conduits

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐

EXHAUST DEVICES

Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑ Hitatchi Variable Pressure SEM S3400 (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☑ Hitachi S4500 FE-SEM (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 3	☑ Haskris Chiller (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 4	☑ Denton Desk TAR001-0158-120V (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 5	☑ JEOL JEM-2010/SEG/SIP/DP (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 6	☑ Haskris Chiller for TEM (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 7	☑ OLS4100 Laser conf System (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 8	☑ Scanning Auger nanoprobe 680 (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 9	☑ FTIR Spectrometer IS50r (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 10	☑ FTIR Microscope (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐

COMMENTS

Item 11 - Agilent Cary 620 FTIR Microscope
Item 12 - Atomic force Microscope (Asylum R)
Item 13 - Auto 36 Vacuum base - Evaporator
Item 14 - Denton Desk TAR001-0158-120V
Item 15 - KW-4A Spin Coater
Item 16 - Olympus BX51 Microscope
Item 17 - Head system for Tunneling Micr-STM

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E/M fields < 70nanoT, vibration < 1 micron peak to peak @ 2-10 HZ, Relative humidity STABLE at <60% year round. Equipment 2 having independent grounding < 100ohms

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☐
Argon (Ar):	☑
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☑
Special Gas 1 (SG1):	☑ SF6
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☑ (0)
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☑
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

UPS used with equipment 1, 2, 5, 6, 8, and 16
Equipment 1, 2, 5 must have magnetic flux less than 140, 70, and 100 nanoTesla respectively

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

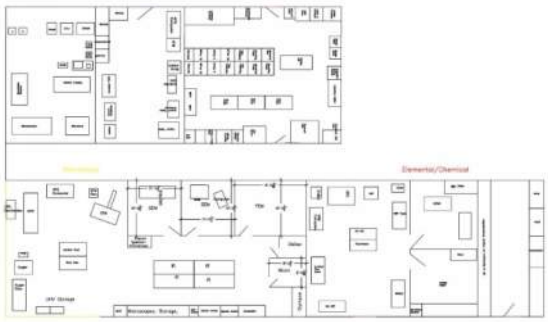
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS	door 4, closest to item 5, double door, 4'6"x8'0', no window panel, wood

Room Function Number: 06.255.0007



Room Function Number: 06.255.0008

Room Name	Materials Science Center - Nikon
Function Location:	06 - Material Sciences and Engineering / 255 - Research Laboratory Service
Room Data Status	From RL_MSE_Imaging
Last modified	Niewoehner, Daniel, 4/23/2021 10:32 AM

Categorization

Room Number	
User Room Number	
IFCID	35Rl25OcP2iODH9wAL$Rkp
Revit Level	LEVEL 1

Areas

Programmed	80.00
Actual	2,058.00
Height:	0
Perimeter:	193.67
Feasibility NSF	80

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Ground Floor	Required
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Lab Support
UWEC FICM Number	255 - Research Laboratory Service
Vibration Requirements	D - VC-D

USER DATA

ROOM DATA

Responsibility	
Adjacency	Part of Imaging, adjacent to MSE rooms 06.255.0001, 06.255.0002, 06.215.0001

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

this room must be on first floor to avoid problems with vibration.

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☑
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	4'-6" x 8'-0"
Type:	Standard
Material:	Wood

HAZARD / SHIELDING

Type:	cant be near NMR, elevators, large power conduits

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐

EXHAUST DEVICES

Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑ Hitatchi Variable Pressure SEM S3400 (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☑ Hitachi S4500 FE-SEM (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 3	☑ Haskris Chiller (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 4	☑ Denton Desk TAR001-0158-120V (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 5	☑ JEOL JEM-2010/SEG/SIP/DP (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 6	☑ Haskris Chiller for TEM (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 7	☑ OLS4100 Laser conf System (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 8	☑ Scanning Auger nanoprobe 680 (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 9	☑ FTIR Spectrometer IS50r (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 10	☑ FTIR Microscope (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐

COMMENTS

Item 11 - Agilent Cary 620 FTIR Microscope
Item 12 - Atomic force Microscope (Asylum R)
Item 13 - Auto 36 Vacuum base - Evaporator
Item 14 - Denton Desk TAR001-0158-120V
Item 15 - KW-4A Spin Coater
Item 16 - Olympus BX51 Microscope
Item 17 - Head system for Tunneling Micr-STM

most instruments are sensitive to vibration, E/M fields, temperature control and stability, and himidity control and stability. These instruments need to be on a separate HVAC system that does not go through swings in the spring and fall.

E/M fields < 70nanoT, vibration < 1 micron peak to peak @ 2-10 HZ, Relative humidity STABLE at <60% year round. Equipment 2 having independent grounding < 100ohms

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☐
Argon (Ar):	☑
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☑
Special Gas 1 (SG1):	☑ SF6
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☑ (0)
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☑
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

UPS used with equipment 1, 2, 5, 6, 8, and 16
Equipment 1, 2, 5 must have magnetic flux less than 140, 70, and 100 nanoTesla respectively

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

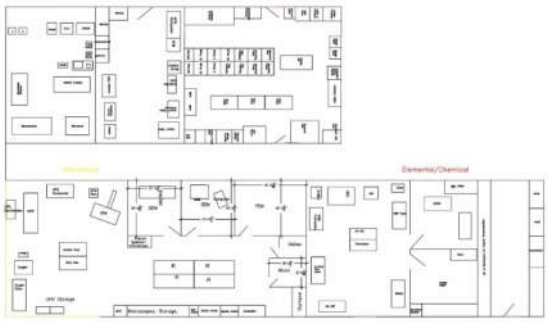
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS	door 4, closest to item 5, double door, 4'6"x8'0', no window panel, wood

Room Function Number: 06.255.0008



Room Function Number: 06.255.0009

Room Name	Materials Science Center - ICPMS
Function Location:	06 - Material Sciences and Engineering / 255 - Research Laboratory Service
Room Data Status	From RL_MSE_Element Analysis
Last modified	Niewoehner, Daniel, 4/23/2021 10:30 AM

Categorization

Room Number	
User Room Number	
IFCID	35RI25OcP2iODH9wAL$Rky
Revit Level	LEVEL 1

Areas

Programmed	440.00
Actual	1,601.25
Height:	0
Perimeter:	164.67
Feasibility NSF	440

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Ground Floor	Required
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Lab Support
UWEC FICM Number	255 - Research Laboratory Service
Vibration Requirements	D - VC-D

USER DATA

ROOM DATA

Responsibility	
Adjacency	Part of Elemental Analysis and adjacent to 06.255.0003

COMMENTS

this room will be subdivided into several rooms

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☑
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☑
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☑ clean room ceiling tiles
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

HAZARD / SHIELDING

Type:	cant be near NMR, elevators, large power conduits

COMMENTS

open ceilings everywhere EXCEPT rooms with instruments 10 and 12 (clean room ceiling tiles)

Door 1 to chiller and tank storage
Door 2&3 to hallway, double door no center post
Door 4 - 3'x8', 1/2 vision panel, material resistant to chlorine and VHP, to rooms for equipment 10 and 12
Door 5 - 3'x8', 1/2 vision panel, wood, to polymer annex room

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

walls and cabinetry in rooms with equipment 10 and 12 need to be clean room compatible (smooth, impervious, Dagard paneling or 2 pot epoxy coated surfaces)

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 2)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐

Room Function Number: 06.255.0009

EXHAUST DEVICES

Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☑ (Qty: 2)
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☑ (Qty: 2)
Other:	☐

COMMENTS

2 fume hoods near equipment 12, 1 in polymer annex room
Hori lam Flow Hoods near equipment 9 and 10
Point exhaust at equipment 9 and 13

EQUIPMENT

Item 1	☑ D8 Discover Diffractometer (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 2	☑ Haskris Chiller (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 3	☑ S8 Tiger Seq wavelength X-Ray (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 4	☑ Haskris R175 chiller (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 5	☑ Cary 60 UV-Vis Spectrometer (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 6	☑ Perkinelmer LS55 (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 7	☑ Laminar Flow Hood (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 8	☑ Ninton X-Ray XL3T Flurenscence (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 9	☑ Agilent Spectrometer MPAES (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: also Nitrogen Generator for MPAES
Item 10	☑ Finnigan high Res Element2 SC-E2 (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: also Sampler for Element2 SC-E2

COMMENTS

Item 11 - Haskris chiller for ICP-MS
Item 12 - Anton Par Multiwave Pro
Item 13 - Millipore Water System
Item 14 - Phoibos 150 MCD Energy Analize - XPS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

Equipment in this room is very sensitive to temperature, temperature stability, humidity and humidity stability. it needs to be on a separate HVAC system that is stable at <2C/hr and 50%-60% RH. The vibration needs to be at most 10 microns peak to peak for frequencies less than 30 HZ. E/M fields must be below 5mT. particles over 5 microns must be limited to 100,000/ft3.

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☑
Argon (Ar):	☑
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☑ UHP, N2(g)
Special Gas 2 (SG2):	☑ Methane/Ar mix
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☑ (3)
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☑
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

2 safety showers (floor drain at each), 2 eye wash

1 eye wash and safety shower neds to be in main room (near equipment 12) and one set in the polymer annex room

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☑
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

UPS used with equipment 1, 2, 3, 4, 10, 11, 14

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

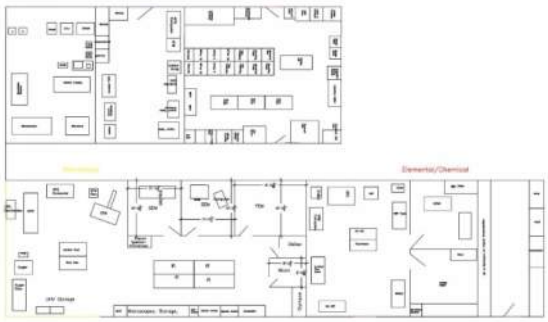
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 06.255.0009



Room Function Number: 06.255.0010

Room Name	Materials Science Center - ICPMS Prep
Function Location:	06 - Material Sciences and Engineering / 255 - Research Laboratory Service
Room Data Status	From RL_MSE_Element Analysis
Last modified	Niewoehner, Daniel, 4/23/2021 10:30 AM

Categorization

Room Number	
User Room Number	
IFCID	35Rl25OcP2iODH9wAL$Rky
Revit Level	LEVEL 1

Areas

Programmed	220.00
Actual	1,601.25
Height:	0
Perimeter:	164.67
Feasibility NSF	220

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Ground Floor	Required
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Lab Support
UWEC FICM Number	255 - Research Laboratory Service
Vibration Requirements	D - VC-D

USER DATA

ROOM DATA

Responsibility	
Adjacency	Part of Elemental Analysis and adjacent to 06.255.0003

COMMENTS

this room will be subdivided into several rooms

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☑
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☑
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☑ clean room ceiling tiles
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

HAZARD / SHIELDING

Type:	cant be near NMR, elevators, large power conduits

COMMENTS

open ceilings everywhere EXCEPT rooms with instruments 10 and 12 (clean room ceiling tiles)

Door 1 to chiller and tank storage
Door 2&3 to hallway, double door no center post
Door 4 - 3'x8', 1/2 vision panel, material resistant to chlorine and VHP, to rooms for equipment 10 and 12
Door 5 - 3'x8', 1/2 vision panel, wood, to polymer annex room

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

walls and cabinetry in rooms with equipment 10 and 12 need to be clean room compatible (smooth, impervious, Dagard paneling or 2 pot epoxy coated surfaces)

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 2)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐

Room Function Number: 06.255.0010

EXHAUST DEVICES

Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☑ (Qty: 2)
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☑ (Qty: 2)
Other:	☐

COMMENTS

2 fume hoods near equipment 12, 1 in polymer annex room
Hori lam Flow Hoods near equipment 9 and 10
Point exhaust at equipment 9 and 13

EQUIPMENT

Item 1	☑ D8 Discover Diffractometer (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 2	☑ Haskris Chiller (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 3	☑ S8 Tiger Seq wavelength X-Ray (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 4	☑ Haskris R175 chiller (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 5	☑ Cary 60 UV-Vis Spectrometer (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 6	☑ Perkinelmer LS55 (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 7	☑ Laminar Flow Hood (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 8	☑ Ninton X-Ray XL3T Flurenscence (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 9	☑ Agilent Spectrometer MPAES (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: also Nitrogen Generator for MPAES
Item 10	☑ Finnigan high Res Element2 SC-E2 (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: also Sampler for Element2 SC-E2

COMMENTS

Item 11 - Haskris chiller for ICP-MS
Item 12 - Anton Par Multiwave Pro
Item 13 - Millipore Water System
Item 14 - Phoibos 150 MCD Energy Analize - XPS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

Equipment in this room is very sensitive to temperature, temperature stability, humidity and humidity stability. it needs to be on a separate HVAC system that is stable at <2C/hr and 50%-60% RH. The vibration needs to be at most 10 microns peak to peak for frequencies less than 30 HZ. E/M fields must be below 5mT. particles over 5 microns must be limited to 100,000/ft3.

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☑
Argon (Ar):	☑
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☑ UHP, N2(g)
Special Gas 2 (SG2):	☑ Methane/Ar mix
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☑ (3)
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☑
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

2 safety showers (floor drain at each), 2 eye wash

1 eye wash and safety shower neds to be in main room (near equipment 12) and one set in the polymer annex room

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☑
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

UPS used with equipment 1, 2, 3, 4, 10, 11, 14

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

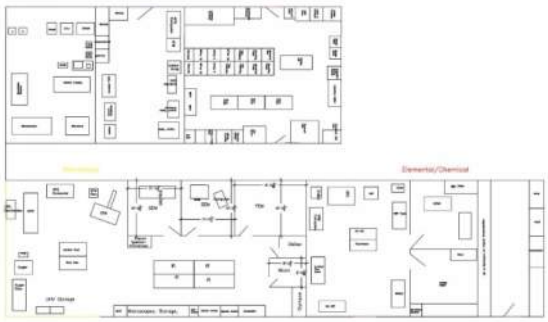
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 06.255.0010



Room Function Number: 06.255.0011

Room Name	Materials Science Center - Polymer Lab
Function Location:	06 - Material Sciences and Engineering / 255 - Research Laboratory Service
Room Data Status	From RL_MSE_Element Analysis
Last modified	Niewoehner, Daniel, 4/23/2021 10:30 AM

Categorization

Room Number	
User Room Number	
IFCID	35Rl25OcP2iODH9wAL$Rky
Revit Level	LEVEL 1

Areas

Programmed	330.00
Actual	1,601.25
Height:	0
Perimeter:	164.67
Feasibility NSF	330

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Ground Floor	Required
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Lab Support
UWEC FICM Number	255 - Research Laboratory Service
Vibration Requirements	D - VC-D

USER DATA

ROOM DATA

Responsibility	
Adjacency	Part of Elemental Analysis and adjacent to 06.255.0003

COMMENTS

this room will be subdivided into several rooms

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☑
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☑
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☑ clean room ceiling tiles
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

HAZARD / SHIELDING

Type:	cant be near NMR, elevators, large power conduits

COMMENTS

open ceilings everywhere EXCEPT rooms with instruments 10 and 12 (clean room ceiling tiles)

Door 1 to chiller and tank storage
Door 2&3 to hallway, double door no center post
Door 4 - 3'x8', 1/2 vision panel, material resistant to chlorine and VHP, to rooms for equipment 10 and 12
Door 5 - 3'x8', 1/2 vision panel, wood, to polymer annex room

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

walls and cabinetry in rooms with equipment 10 and 12 need to be clean room compatible (smooth, impervious, Dagard paneling or 2 pot epoxy coated surfaces)

EXHAUST DEVICES

Benchtop Fume Hoods:	☑ (Qty: 2)
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐

Room Function Number: 06.255.0011

EXHAUST DEVICES

Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☑ (Qty: 2)
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☑ (Qty: 2)
Other:	☐

COMMENTS

2 fume hoods near equipment 12, 1 in polymer annex room
Hori lam Flow Hoods near equipment 9 and 10
Point exhaust at equipment 9 and 13

EQUIPMENT

Item 1	☑ D8 Discover Diffractometer (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 2	☑ Haskris Chiller (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 3	☑ S8 Tiger Seq wavelength X-Ray (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 4	☑ Haskris R175 chiller (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 5	☑ Cary 60 UV-Vis Spectrometer (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 6	☑ Perkinelmer LS55 (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 7	☑ Laminar Flow Hood (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 8	☑ Ninton X-Ray XL3T Flurenscence (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 9	☑ Agilent Spectrometer MPAES (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: also Nitrogen Generator for MPAES
Item 10	☑ Finnigan high Res Element2 SC-E2 (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: also Sampler for Element2 SC-E2

COMMENTS

Item 11 - Haskris chiller for ICP-MS
Item 12 - Anton Par Multiwave Pro
Item 13 - Millipore Water System
Item 14 - Phoibos 150 MCD Energy Analize - XPS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

Equipment in this room is very sensitive to temperature, temperature stability, humidity and humidity stability. it needs to be on a separate HVAC system that is stable at <2C/hr and 50%-60% RH. The vibration needs to be at most 10 microns peak to peak for frequencies less than 30 HZ. E/M fields must be below 5mT. particles over 5 microns must be limited to 100,000/ft3.

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☑
Nitrogen (N2):	☑
Helium (He):	☑
Argon (Ar):	☑
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☑ UHP, N2(g)
Special Gas 2 (SG2):	☑ Methane/Ar mix
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☑ (3)
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☑
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

2 safety showers (floor drain at each), 2 eye wash

1 eye wash and safety shower neds to be in main room (near equipment 12) and one set in the polymer annex room

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☑
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

UPS used with equipment 1, 2, 3, 4, 10, 11, 14

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

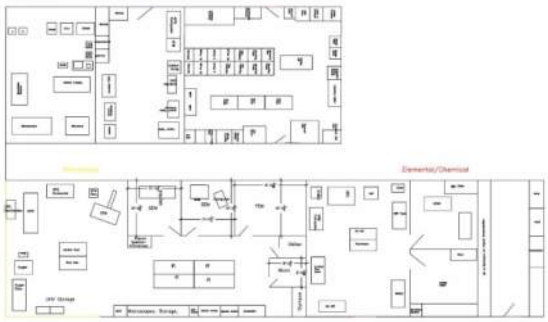
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 06.255.0011



Selection

Room Group Type: UWEC FICM Number

Group: 210 - Class Laboratory, 215 - Class Laboratory Service, 220 - Open Laboratory, 225 - Open Laboratory Service, 250 - Research Laboratory , 255 - Research Laboratory Service, 570 - Animal Facilities, 575 - Animal Facilities Services, 580 - Greenhouse, 585 - Greenhouse Service

Room function: 08: Mayo Partnership

Room Function Number: 08.250.0002

Room Name	Mayo Node - AI and Bioinformatics
Function Location:	08 - Mayo Partnership / 250 - Research Laboratory
Room Data Status	Unique
Last modified	Ivey, David, 2/5/2021 1:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	2,000.00	Borrowed Light	Control
User Room Number		Actual	1,261.41	From Model Phase	New Construction
IFCID	3DyGy1zfXCNOtJ6eV5gGXl	Height:	0	Occupant	0
Revit Level	LEVEL 1	Perimeter:	119.81	Revit Model	UWEC-HOK-AR
		Feasibility NSF	2,000	Revit Sync Date	2021-04-26
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐
- Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
- Size:
- Type:
- Material:

DOOR 2
- Size:
- Type:
- Material:

DOOR 3
- Size:
- Type:
- Material:

HAZARD / SHIELDING
- Type:

COMMENTS

CASEWORK

CASEWORK TYPE
- Fixed Casework ☐
- Movable Casework ☐
- Wall Cabinets ☐
- Wall Shelves ☐
- Lockable Cabinets ☐
- Other: ☐

CASEWORK MATERIAL
- Metal ☐
- Wood ☐
- Stainless Steel ☐
- Other: ☐

BENCHTOP MATERIAL
- Epoxy ☐
- Wood ☐
- Stainless Steel ☐
- Plastic Laminate ☐
- Phenolic ☐
- Other: ☐

SHELVING MATERIAL
- Metal ☐
- Wood ☐
- Stainless Steel ☐
- Glass ☐
- Other: ☐

COMMENTS

EXHAUST DEVICES
- Benchtop Fume Hoods: ☐
- Walk-in Fume Hoods: ☐
- Radioisotope Hoods: ☐
- Perchloric Hoods: ☐
- Bio Safety Cabs: ☐
- Vert Lam Flow Hoods: ☐
- Hori Lam Flow Hoods: ☐
- Polypropylene Hoods: ☐
- Canopy Hoods: ☐
- ADA Hoods: ☐

EXHAUST DEVICES

Point Exhaust: ☐
Other: ☐

COMMENTS

EQUIPMENT

Item 1 ☐
Item 2 ☐
Item 3 ☐
Item 4 ☐
Item 5 ☐
Item 6 ☐
Item 7 ☐
Item 8 ☐
Item 9 ☐
Item 10 ☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling: 0 F Range +/-: 0
Relative Humidity Cooling: 0 % Range +/-: 0
Design Temp Heating: 0 F Range +/-: 0
Relative Humidity Heating: 0 % Range +/-: 0
Supply Air Filtration
Air Change Rate (ac/hr): 0
Room Pressure Indicator ☐
Pressure Monitor ☐
Laminar Flow Distribution ☐
Exhaust Air Filtration
Exhaust Air: 100% Exhausted ☐
Exhaust Air: Recirculated Air per ASHRAE 62.1 ☐
Low Wall Exhaust ☐

ACOUSTIC

Sound Transmision Class:
Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection: ☐
Other: ☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS): ☐
Vacuum (VAC): ☐
Carbon Diox. (CO2): ☐
Compressed Air (CA): ☐
Chilled Water (CW S/R): ☐
Nitrogen (N2): ☐
Helium (He): ☐
Argon (Ar): ☐
Oxygen (O2): ☐
Hydrogen (H): ☐
Liq Nitrogen (LN2): ☐
Special Gas 1 (SG1): ☐
Special Gas 2 (SG2): ☐
Other: ☐

SINKS

Standard ☐
ADA ☐
Scullery ☐
Epoxy ☐
Stainless Steel ☐
Marine Edge ☐

SERVICES AT SINKS

Hot Water (HW) ☐
Cold Water (CW) ☐
High Purity Water ☐
Eye Wash ☐
Drench Hose ☐
DI/RO Water (DI/RO): ☐

OTHER

Floor Drain (FD) ☐
Floor Sink (FS) ☐
Trench Drain (TD) ☐
Safety Shower (SS) ☐
Eye Wash (EW) ☐
Other: ☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

- Raceway ☐
- 110V, 20A, 1 Phase: ☐
- 208V, 30A, 1 Phase ☐
- 208V, 30A, 3 Phase: ☐
- Standby Power ☐
- UPS ☐
- Power at Table ☐
- Data ☐
- Phone ☐
- Other: ☐

LIGHTING

- 80-100 fc @ wrk srfc ☐
- 30-60 fc @ wrk srfc ☐
- Other fc @ wrk srfc: ☐
- Task Lighting ☐
- Dimmable Lighting ☐
- Zoned Lighting ☐
- Prefer Natural Light ☐
- Other: ☐

COMMENTS

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 08.250.0003

Room Name	Mayo Node - Bio-fabrication
Function Location:	08 - Mayo Partnership / 250 - Research Laboratory
Room Data Status	Unique
Last modified	Ivey, David, 2/5/2021 1:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	2,000.00	Borrowed Light	Control
User Room Number		Actual	0.00	From Model Phase	New Construction
IFCID	3DyGy1zfXCNOtJ6eV5gGXh	Height:	0	Occupant	0
Revit Level	LEVEL 1	Perimeter:	0	Revit Model	UWEC-HOK-AR
		Feasibility NSF	2,000	Revit Sync Date	2021-04-06
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day ☐
14 hours/day ☐
24 hours/day ☐
Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint ☐
GWB, Epoxy Paint ☐
CMU ☐
Pre-Fab Modular ☐
Other: ☐

WALL PROTECTION
Corner Guards ☐
Crash Rails ☐
Other: ☐

FLOORING
VCT ☐
Sheet Vinyl ☐
Electrostatic Dissipative ☐
Epoxy ☐
Carpet ☐
Sealed Concrete ☐
Commercial Rubber ☐
Other: ☐

FLOOR BASE
Applied ☐
Integral ☐
Material:

CEILINGS
Open ☐
Acoustic Tile ☐
Gyp. Board ☐
Special Ceilings: ☐
Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 08.250.0004

Room Name	Mayo Node - Home Health, Patient Outreach, and Digital Health
Function Location:	08 - Mayo Partnership / 250 - Research Laboratory
Room Data Status	Unique
Last modified	Ivey, David, 2/5/2021 1:14 PM

Categorization

Room Number	
User Room Number	
IFCID	0rDcbM$mPFfvD2gKCN9wjH
Revit Level	LEVEL 4

Areas

Programmed	2,000.00
Actual	750.31
Height:	0
Perimeter:	108.27
Feasibility NSF	2,000

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-26
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 08.250.0004

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:
Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 08.250.0005

Room Name	Mayo Node - Innovation Hub
Function Location:	08 - Mayo Partnership / 250 - Research Laboratory
Room Data Status	Unique
Last modified	Ivey, David, 2/5/2021 1:14 PM

Categorization

Room Number	
User Room Number	
IFCID	30QhmDRpz4hRY1CA57LEiU
Revit Level	LEVEL 4

Areas

Programmed	1,500.00
Actual	702.80
Height:	0
Perimeter:	108.27
Feasibility NSF	2,000

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-26
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION

- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING

- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE

- Applied ☐
- Integral ☐

Material:

CEILINGS

- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1

Size:

Type:

Material:

DOOR 2

Size:

Type:

Material:

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 08.250.0006

Room Name	Mayo Node - Bio-fabrication
Function Location:	08 - Mayo Partnership / 250 - Research Laboratory
Room Data Status	Unique
Last modified	Ivey, David, 2/5/2021 1:14 PM

Categorization

Room Number	
User Room Number	
IFCID	3DyGy1zfXCNOtJ6eV5gGcV
Revit Level	LEVEL 2

Areas

Programmed	0.00
Actual	2,136.27
Height:	0
Perimeter:	282.94
Feasibility NSF	2,000

Groups / Classifications / Status

Borrowed Light	Control
From Model Department	Mayo Partnership
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-29
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 08.250.0006

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 08.250.0007

Room Name	Cadaver Lab
Function Location:	08 - Mayo Partnership / 250 - Research Laboratory
Room Data Status	Unique
Last modified	Thelen, Jessica, 3/10/2021 3:49 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqPx
Revit Level	LEVEL 5

Areas

Programmed	1,000.00
Actual	1,328.25
Height:	0
Perimeter:	147.33

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	48
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory
Science	BIO-6 - Anatomy
Activity	EDU - Education/Training

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

this teaching space should be located directly between the A+P1 and A+P2 teaching labs on the same side of the hallway

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☑
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☐
Integral	☑
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	Standard
Material:	Metal

DOOR 2

Size:	4'-6" x 8'-0"
Type:	Standard
Material:	Metal

DOOR 3

Size:	4'-6" x 8'-0"
Type:	Standard
Material:	Metal

HAZARD / SHIELDING

Type:

COMMENTS

smaller door goes to the hallway, larger doors go to A+P1 and A+P2

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☐
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☑
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

upper cabinets and countertops to be stainless steel too

CASEWORK MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☑
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☑ (Qty: 0)
Other:	☑ Cadaver Tables (Qty: 4)

COMMENTS

fumes are an issue. there needs to be a minimum base line ventilation rate for the whole room. when in use, a wall switch should allow for upregulated rates of air exchange.

EQUIPMENT

Item 1	☑ flammable cabinets (Qty: 0) Size: 30gal capacity Vib. Sens. ☐ Vib. Cause ☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 2
Relative Humidity Heating:	50 % Range +/-: 5
Supply Air Filtration	
Air Change Rate (ac/hr):	12
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☑

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	quiet exhaust fans please

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

need the ability to increate rate of air exchange when room is in use

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☑
Vacuum (VAC):	☑
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☑ (2)
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑ No. of Outlets: water resistant
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☑
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

this room should have a light source available at the ends of the ceiling mounted on articulated camera arms

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☐

COMMENTS

camera should be mounted from ceiling with articulated arms over cadaver tanks. light source should be included too.

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

A+P1 - Cadaver Lab - A+P2
cadaver lab to be sandwiched in the final floor plan

Selection

Room Group Type: UWEC FICM Number

Group: 210 - Class Laboratory, 215 - Class Laboratory Service, 220 - Open Laboratory, 225 - Open Laboratory Service, 250 - Research Laboratory , 255 - Research Laboratory Service, 570 - Animal Facilities, 575 - Animal Facilities Services, 580 - Greenhouse, 585 - Greenhouse Service

Room function: 09: Nursing

Room Function Number: 09.210.0002

Room Name	Clinic Rooms - Simulation
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	120.00	Borrowed Light	No Light
User Room Number		Actual	98.33	From Model Phase	New Construction
IFCID	3gieX4YNLB0hj56mCooqRK	Height:	0	Occupant	10
Revit Level	LEVEL 5	Perimeter:	39.67	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-05
				Space Type	Education-Teaching Lab
				UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

Room Function Number: 09.210.0002

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☐
Lockable Cabinets	☑
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☐
Plastic Laminate	☑
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐

Room Function Number: 09.210.0002

EXHAUST DEVICES

Point Exhaust: ☐
Other: ☐

COMMENTS

EQUIPMENT

Item 1	☑ Exam Table (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 2	☑ Wall mount tools (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: requires power
Item 3	☑ Mayo Stand (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:
Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection: ☐
Other: ☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0002

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

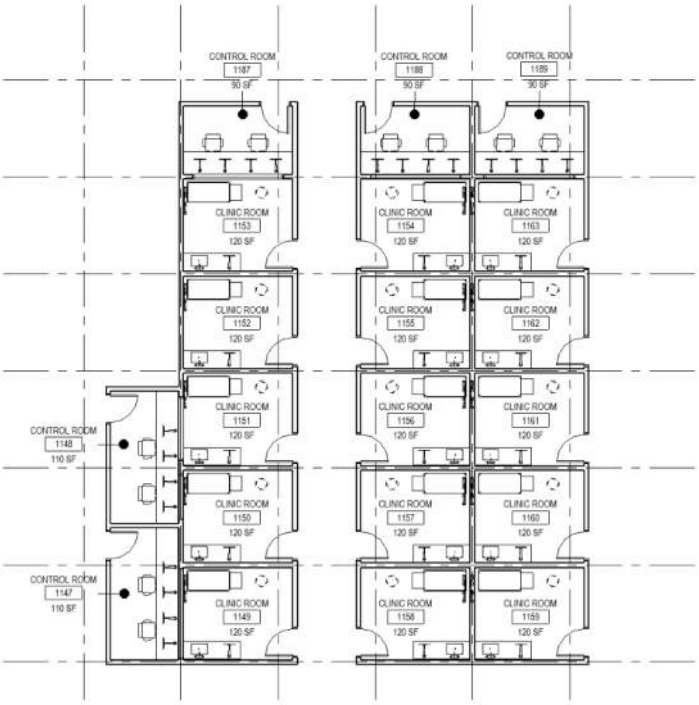
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

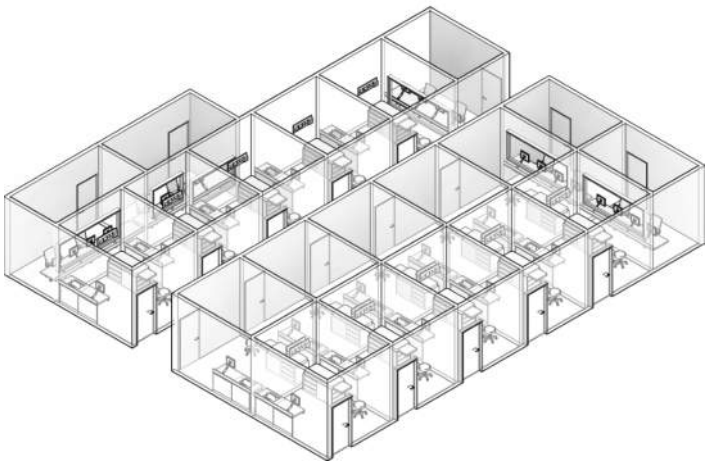
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.210.0002

Room Function Number: 09.210.0003

Room Name	Clinic Rooms - Simulation
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqRN
Revit Level	LEVEL 5

Areas

Programmed	120.00
Actual	100.00
Height:	0
Perimeter:	40
Feasibility NSF	120

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	10
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.210.0003

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.210.0003

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

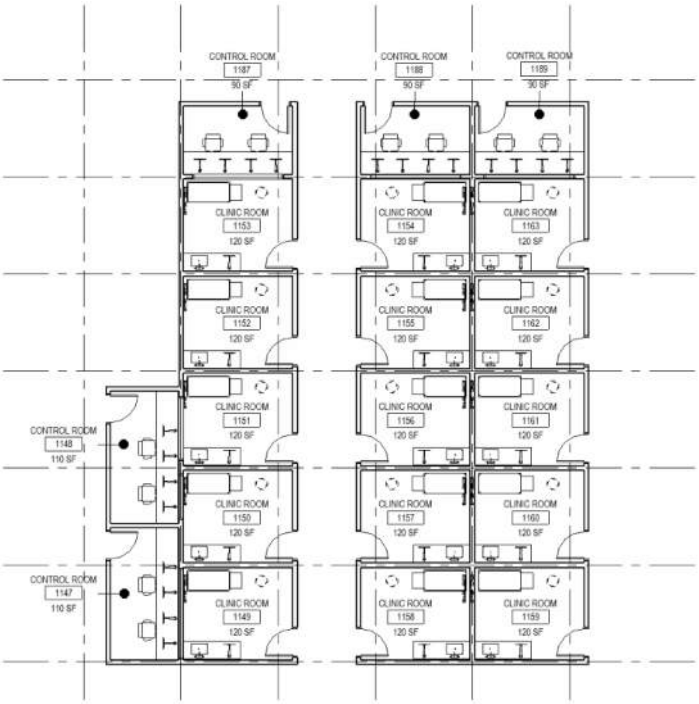
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

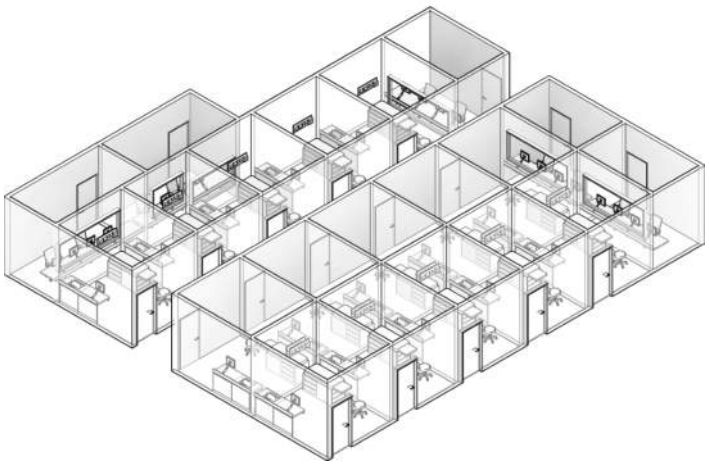
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.210.0004

Room Name	Clinic Rooms - Simulation
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqRI
Revit Level	LEVEL 5

Areas

Programmed	120.00
Actual	100.00
Height:	0
Perimeter:	40
Feasibility NSF	120

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	10
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.210.0004

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.210.0004

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

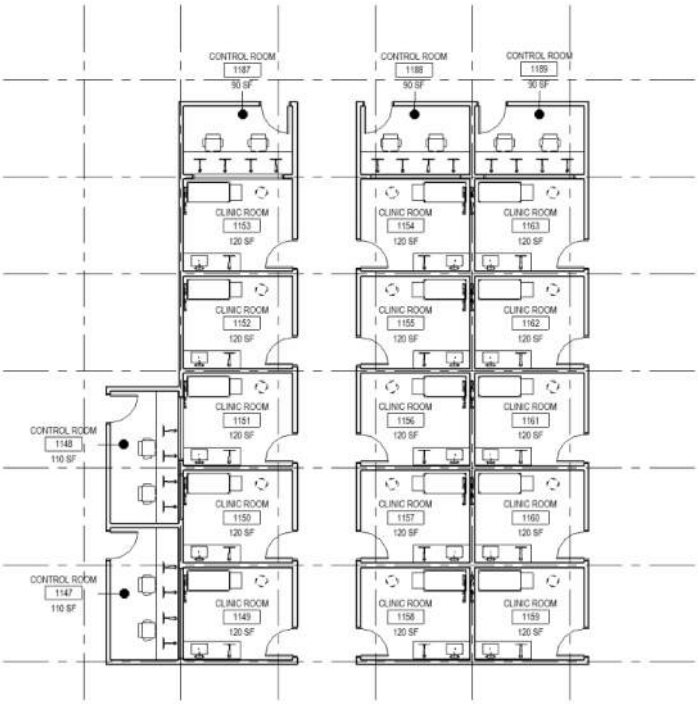
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

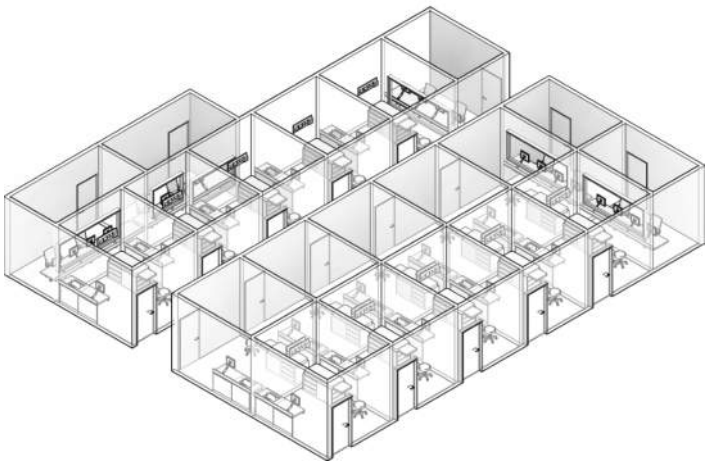
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.210.0005

Room Name	Clinic Rooms - Simulation
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqRT
Revit Level	LEVEL 5

Areas

Programmed	120.00
Actual	100.00
Height:	0
Perimeter:	40
Feasibility NSF	120

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	10
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.210.0005

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

Room Function Number: 09.210.0005

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.210.0005

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

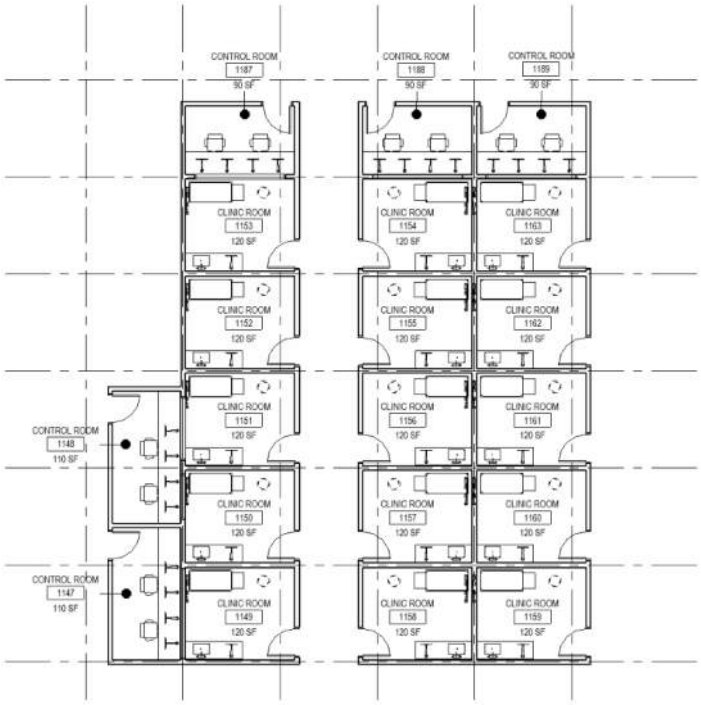
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

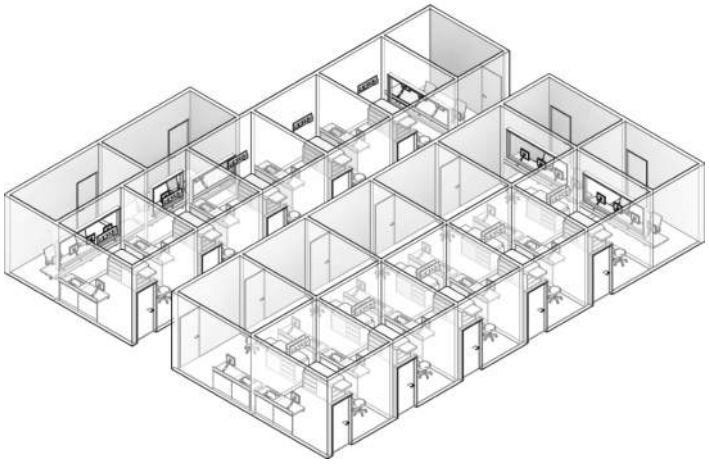
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.210.0006

Room Name	Clinic Rooms - Simulation
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqRO
Revit Level	LEVEL 5

Areas

Programmed	120.00
Actual	100.00
Height:	0
Perimeter:	40
Feasibility NSF	120

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	10
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.210.0006

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑ Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑ Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑ Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.210.0006

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

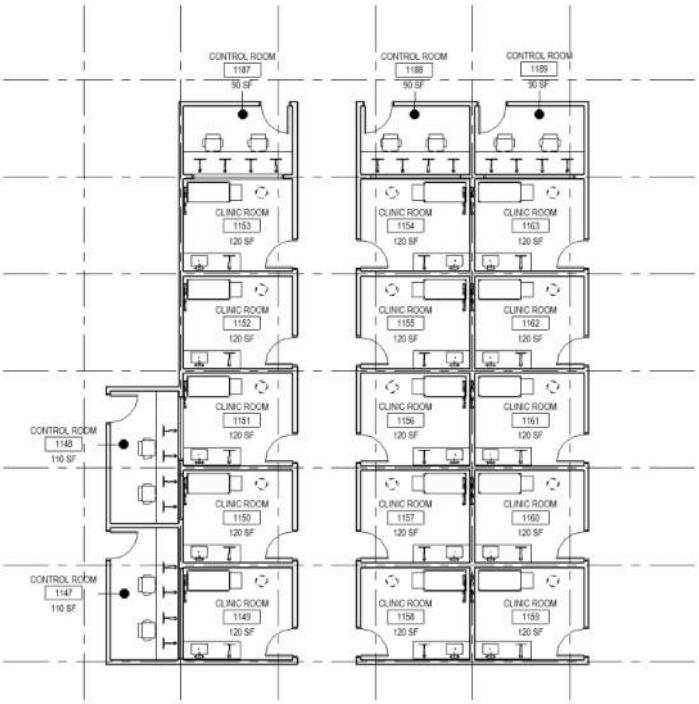
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

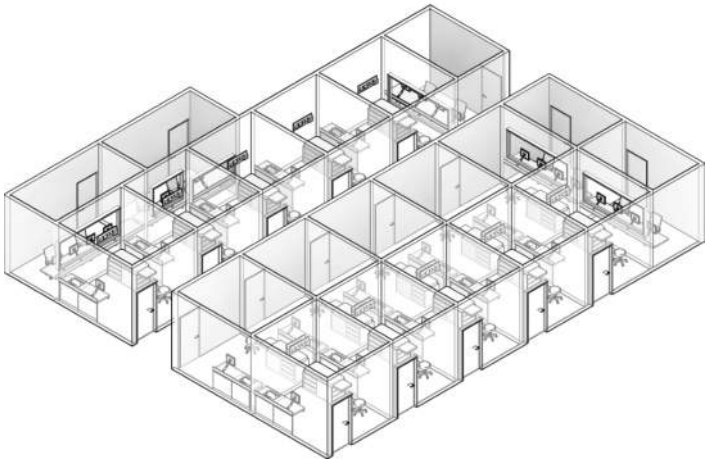
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.210.0007

Room Name	Clinic Rooms - Simulation
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqRR
Revit Level	LEVEL 5

Areas

Programmed	120.00
Actual	100.83
Height:	0
Perimeter:	40.17
Feasibility NSF	120

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	10
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.210.0007

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.210.0007

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

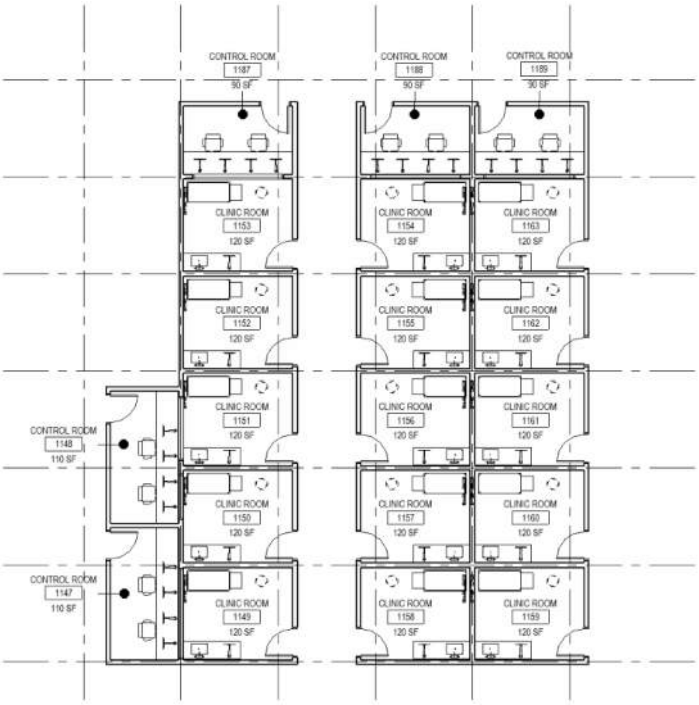
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

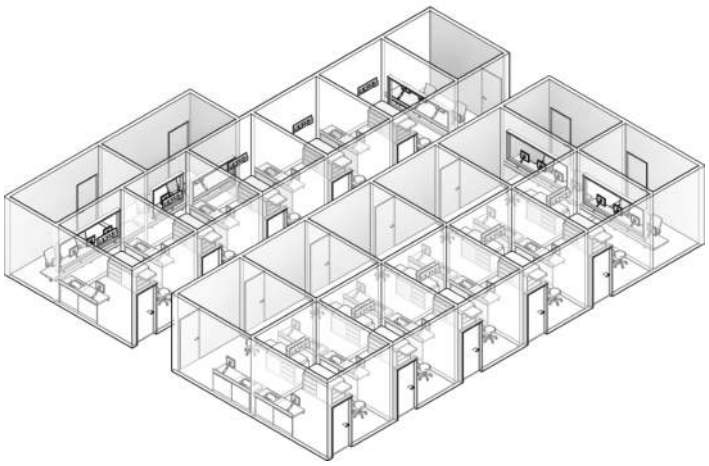
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.210.0008

Room Name	Clinic Rooms - Simulation
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqRc
Revit Level	LEVEL 5

Areas

Programmed	120.00
Actual	100.83
Height:	0
Perimeter:	40.17
Feasibility NSF	120

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	10
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.210.0008

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

Room Function Number: 09.210.0008

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.210.0008

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

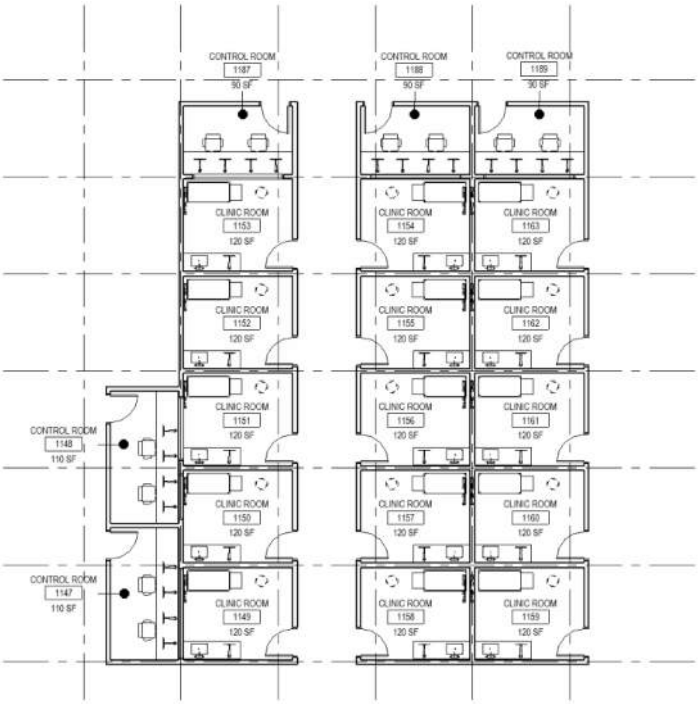
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

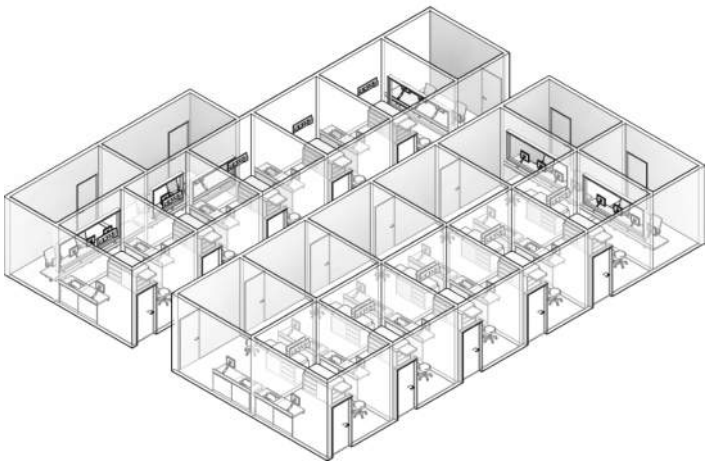
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.210.0009

Room Name	Clinic Rooms - Simulation
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqRX
Revit Level	LEVEL 5

Areas

Programmed	120.00
Actual	100.83
Height:	0
Perimeter:	40.17
Feasibility NSF	120

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	10
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.210.0009

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.210.0009

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

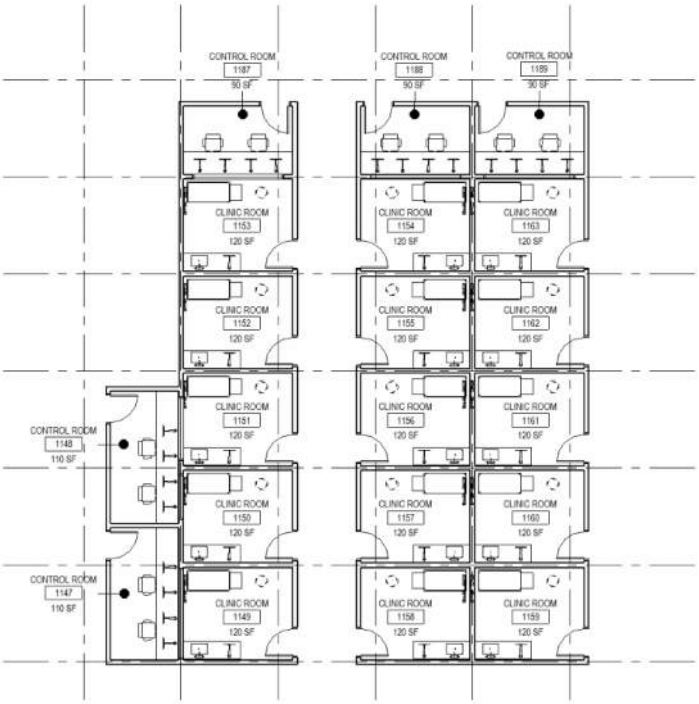
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

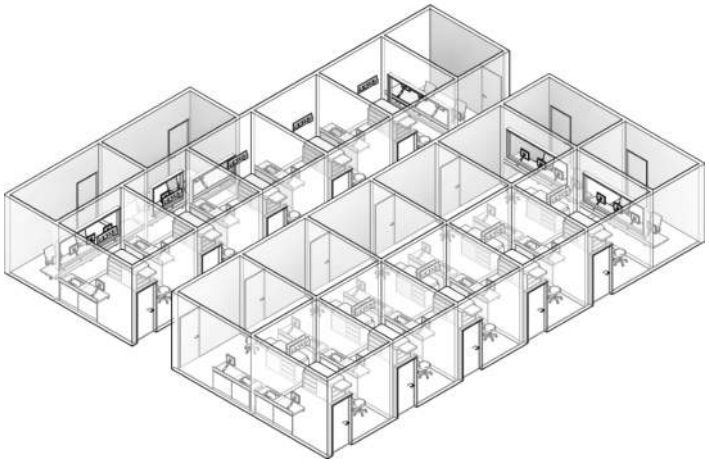
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.210.0010

Room Name	Clinic Rooms - Simulation
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqRi
Revit Level	LEVEL 5

Areas

Programmed	120.00
Actual	100.83
Height:	0
Perimeter:	40.17
Feasibility NSF	120

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	10
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.210.0010

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.210.0010

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

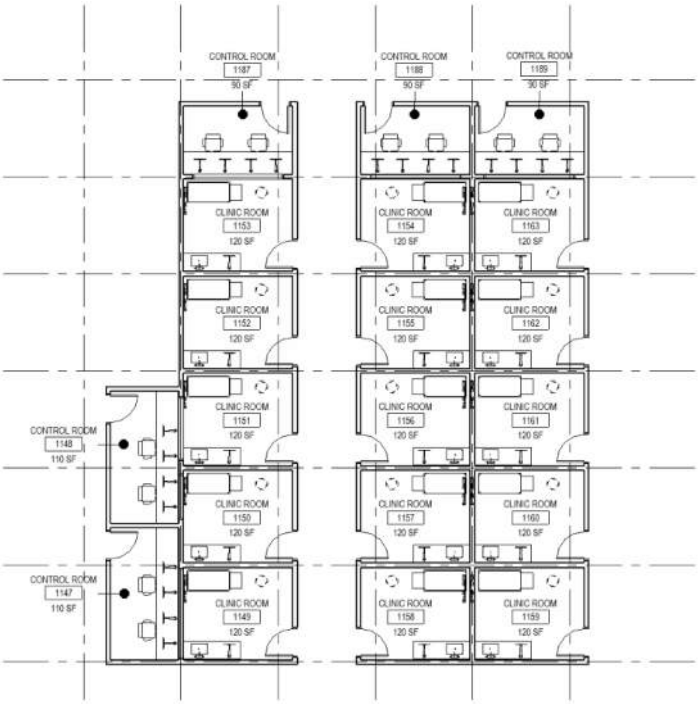
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

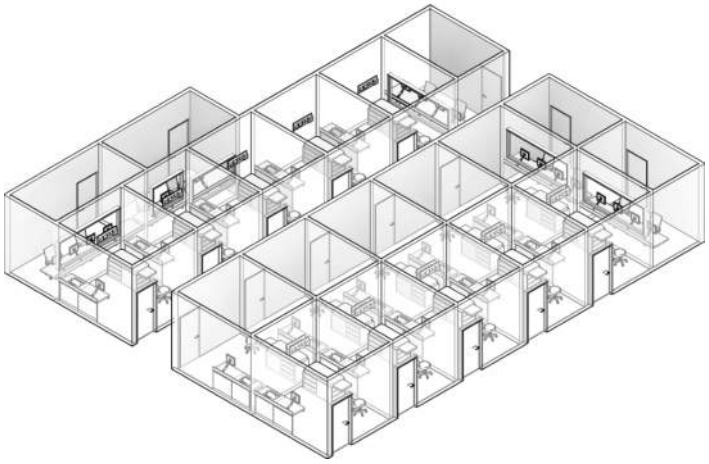
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.210.0011

Room Name	Clinic Rooms - Simulation
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqRl
Revit Level	LEVEL 5

Areas

Programmed	120.00
Actual	100.83
Height:	0
Perimeter:	40.17
Feasibility NSF	120

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	10
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.210.0011

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

Room Function Number: 09.210.0011

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.210.0011

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

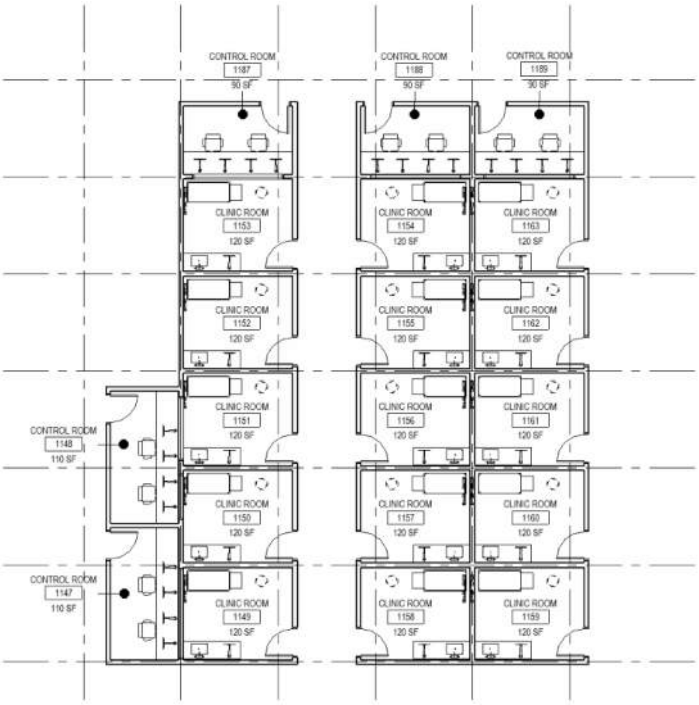
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

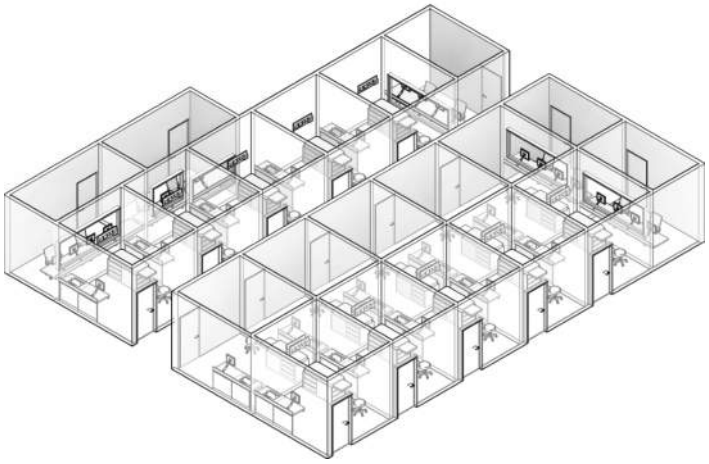
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.210.0012

Room Name	Clinic Rooms - Simulation
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqRg
Revit Level	LEVEL 5

Areas

Programmed	120.00
Actual	100.83
Height:	0
Perimeter:	40.17
Feasibility NSF	120

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	10
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.210.0012

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

Room Function Number: 09.210.0012

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.210.0012

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

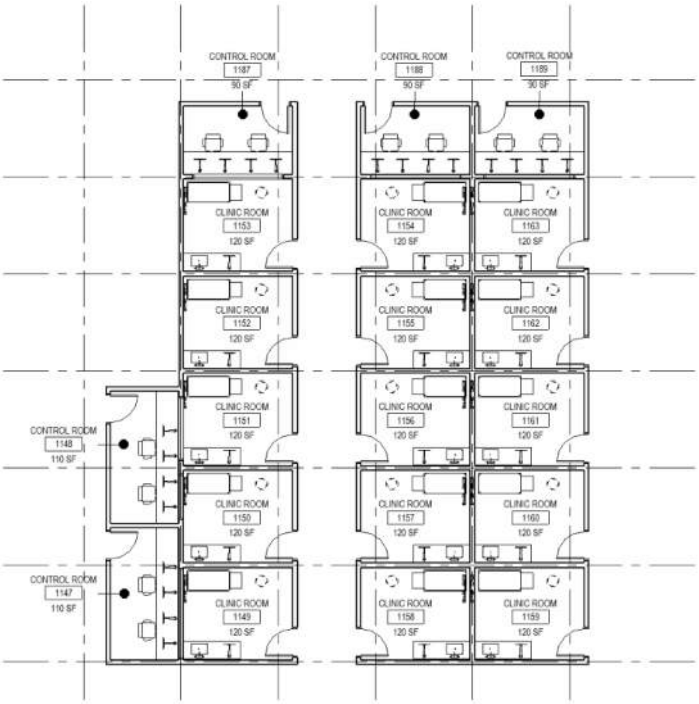
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

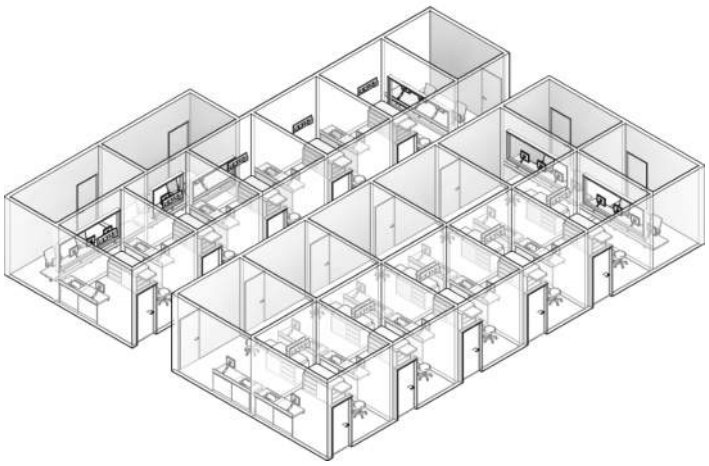
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.210.0013

Room Name	Clinic Rooms - Simulation
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqRr
Revit Level	LEVEL 5

Areas

Programmed	120.00
Actual	100.83
Height:	0
Perimeter:	40.17
Feasibility NSF	120

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	10
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.210.0013

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.210.0013

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

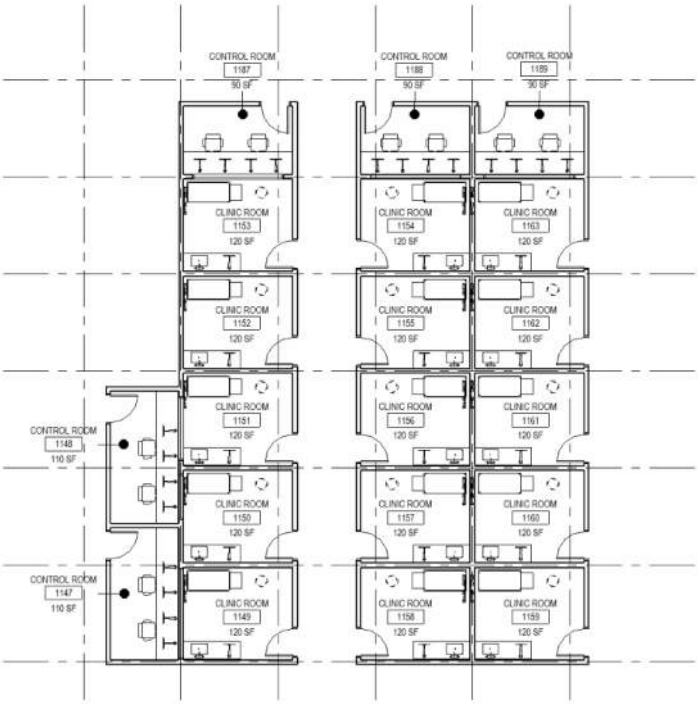
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

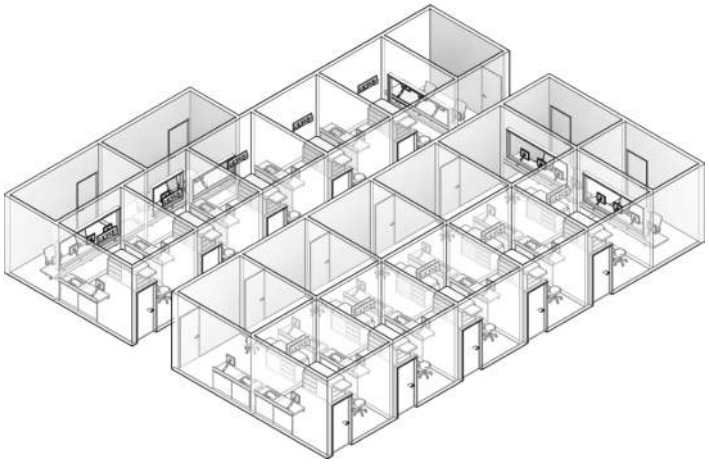
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.210.0014

Room Name	Clinic Rooms - Simulation
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqRm
Revit Level	LEVEL 5

Areas

Programmed	120.00
Actual	100.83
Height:	0
Perimeter:	40.17
Feasibility NSF	120

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	10
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.210.0014

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.210.0014

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

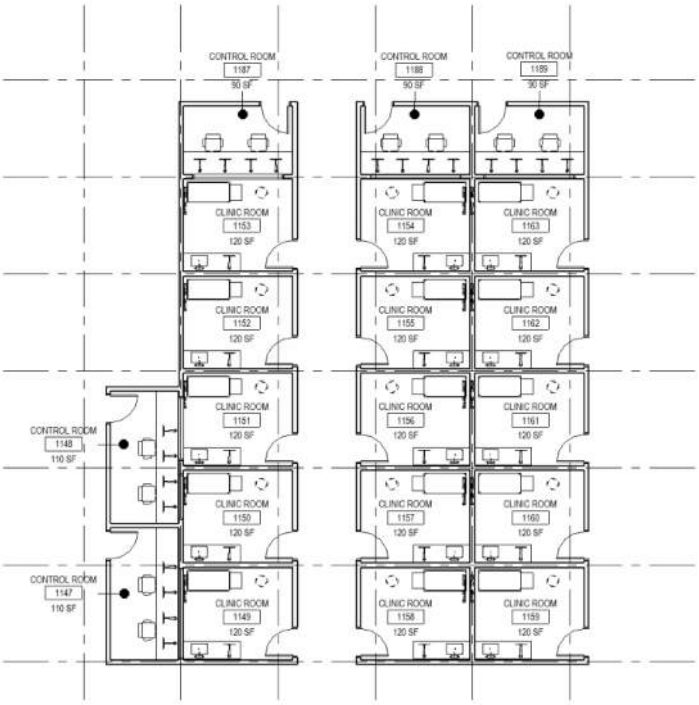
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

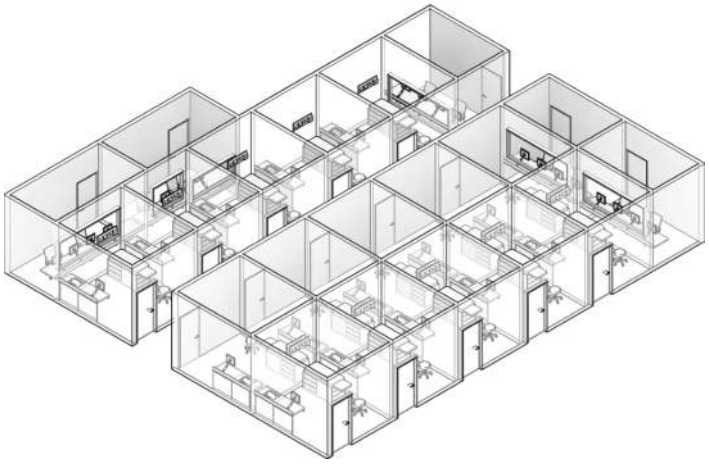
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.210.0015

Room Name	Clinic Rooms - Simulation
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	120.00	Borrowed Light	No Light
User Room Number		Actual	161.20	From Model Phase	New Construction
IFCID	3gieX4YNLB0hj56mCooqRv	Height:	0	Occupant	10
Revit Level	LEVEL 5	Perimeter:	51	Revit Model	UWEC-HOK-AR
		Feasibility NSF	120	Revit Sync Date	2021-04-05
				Space Type	Education-Teaching Lab
				UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.210.0015

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

Room Function Number: 09.210.0015

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.210.0015

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

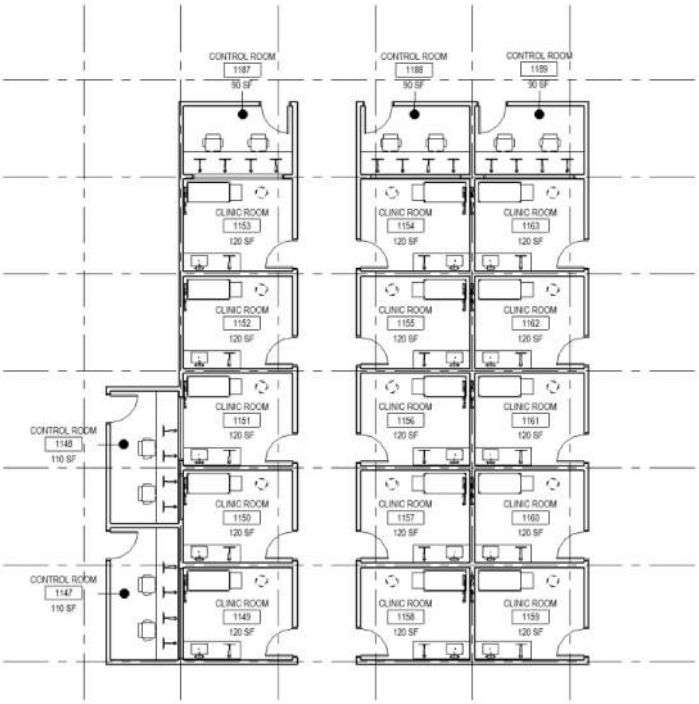
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

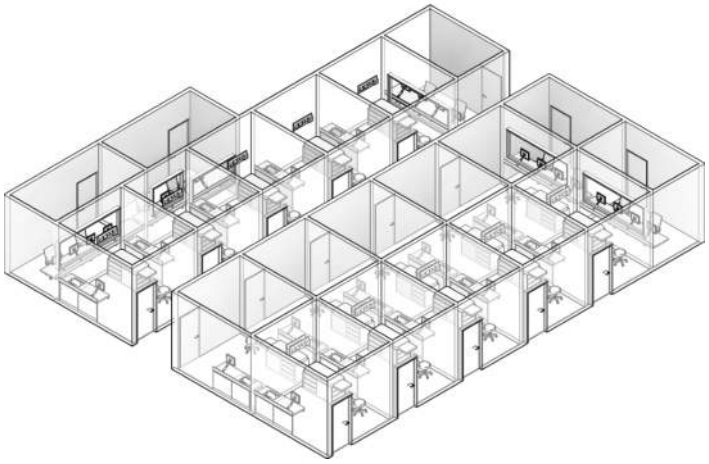
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.210.0016

Room Name	Clinic Rooms - Simulation
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqR_
Revit Level	LEVEL 5

Areas

Programmed	120.00
Actual	161.20
Height:	0
Perimeter:	51
Feasibility NSF	120

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	10
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.210.0016

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.210.0016

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

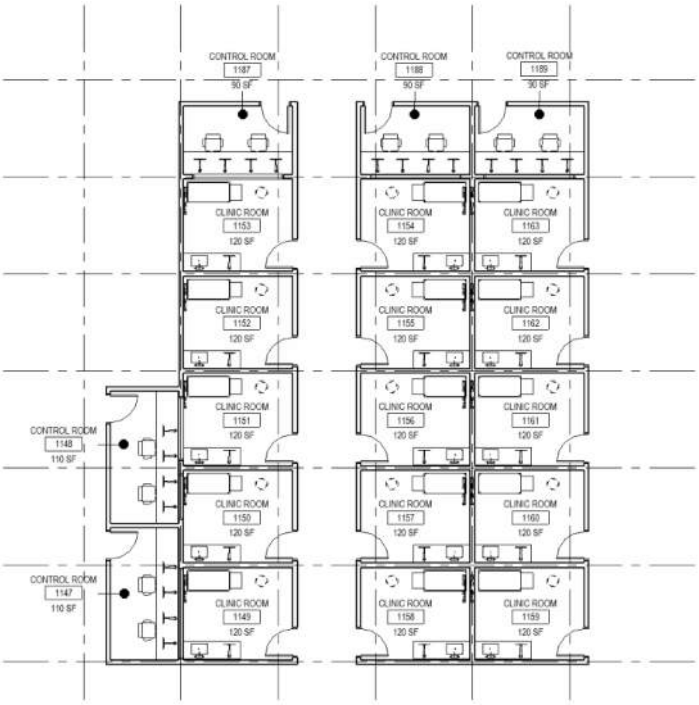
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

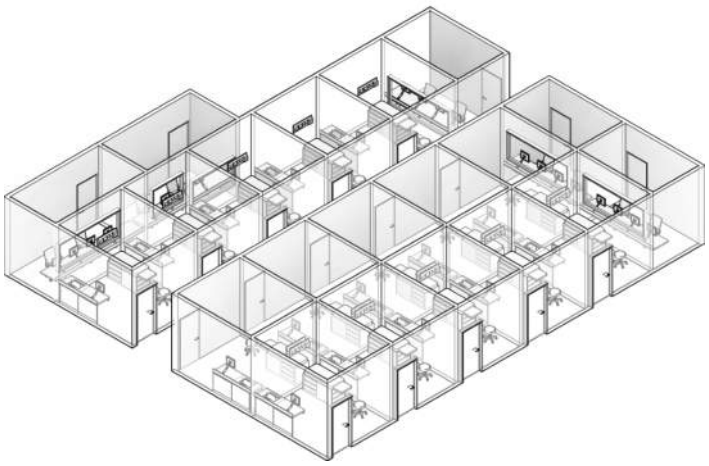
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.210.0017

Room Name	Flexible Skills Practice - Beds
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	No Light
User Room Number		Actual	0.00	Occupant	24
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Space Type	Education-Teaching Lab
		Perimeter:	0	UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
Flooring to be easily and frequently cleaned
Do we need a double door in lieu of 1 1/2 door for carting supplies in and out?
Flexible wall options between pods

Room Function Number: 09.210.0017

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Bedside table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

tables and chairs in demo area

Room Function Number: 09.210.0017

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

do we need 1 sink per bed?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0017

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ One projector per pod

COMMENTS

AV at teaching station, not at each bed

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 09.210.0018

Room Name	Flexible Skills Practice - Beds
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	No Light
User Room Number		Actual	0.00	Occupant	24
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Space Type	Education-Teaching Lab
		Perimeter:	0	UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
Flooring to be easily and frequently cleaned
Do we need a double door in lieu of 1 1/2 door for carting supplies in and out?
Flexible wall options between pods

Room Function Number: 09.210.0018

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Bedside table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

tables and chairs in demo area

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

do we need 1 sink per bed?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0018

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ One projector per pod

COMMENTS

AV at teaching station, not at each bed

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 09.210.0020

Room Name	Flexible Skills Practice - Beds
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	No Light
User Room Number		Actual	0.00	Occupant	24
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Space Type	Education-Teaching Lab
		Perimeter:	0	UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
Flooring to be easily and frequently cleaned
Do we need a double door in lieu of 1 1/2 door for carting supplies in and out?
Flexible wall options between pods

Room Function Number: 09.210.0020

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Bedside table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

tables and chairs in demo area

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

do we need 1 sink per bed?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0020

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ One projector per pod

COMMENTS

AV at teaching station, not at each bed

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 09.210.0021

Room Name	Flexible Skills Practice - Beds
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	No Light
User Room Number		Actual	0.00	Occupant	24
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Space Type	Education-Teaching Lab
		Perimeter:	0	UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☑
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☑
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☑
- Crash Rails ☑
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☑
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☑
- Integral ☐
- Material:

CEILINGS
- Open ☐
- Acoustic Tile ☑
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
- Size: 3'-0" x 8'-0"
- Type: 1/2 Vision Panel
- Material: Wood

DOOR 2
- Size: 4'-6" x 8'-0"
- Type: 1/2 Vision Panel
- Material: Wood

DOOR 3
- Size:
- Type:
- Material:

HAZARD / SHIELDING
Type:

COMMENTS
Flooring to be easily and frequently cleaned
Do we need a double door in lieu of 1 1/2 door for carting supplies in and out?
Flexible wall options between pods

Room Function Number: 09.210.0021

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Bedside table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

tables and chairs in demo area

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

do we need 1 sink per bed?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0021

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ One projector per pod

COMMENTS

AV at teaching station, not at each bed

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 09.210.0022

Room Name	Flexible Skills Practice - Beds
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	No Light
User Room Number		Actual	0.00	Occupant	24
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Space Type	Education-Teaching Lab
		Perimeter:	0	UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
Flooring to be easily and frequently cleaned
Do we need a double door in lieu of 1 1/2 door for carting supplies in and out?
Flexible wall options between pods

Room Function Number: 09.210.0022

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Bedside table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

tables and chairs in demo area

Room Function Number: 09.210.0022

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

do we need 1 sink per bed?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0022

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ One projector per pod

COMMENTS

AV at teaching station, not at each bed

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 09.210.0023

Room Name	Flexible Skills Practice - Beds
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	No Light
User Room Number		Actual	0.00	Occupant	24
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Space Type	Education-Teaching Lab
		Perimeter:	0	UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
Flooring to be easily and frequently cleaned
Do we need a double door in lieu of 1 1/2 door for carting supplies in and out?
Flexible wall options between pods

Room Function Number: 09.210.0023

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Bedside table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

tables and chairs in demo area

Room Function Number: 09.210.0023

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

do we need 1 sink per bed?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0023

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ One projector per pod

COMMENTS

AV at teaching station, not at each bed

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 09.210.0024

Room Name	Flexible Skills Practice - Beds
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	No Light
User Room Number		Actual	0.00	Occupant	24
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Space Type	Education-Teaching Lab
		Perimeter:	0	UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
Flooring to be easily and frequently cleaned
Do we need a double door in lieu of 1 1/2 door for carting supplies in and out?
Flexible wall options between pods

Room Function Number: 09.210.0024

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Bedside table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

tables and chairs in demo area

Room Function Number: 09.210.0024

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

do we need 1 sink per bed?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0024

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ One projector per pod

COMMENTS

AV at teaching station, not at each bed

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 09.210.0025

Room Name	Flexible Skills Practice - Beds
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	No Light
User Room Number		Actual	0.00	Occupant	24
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Space Type	Education-Teaching Lab
		Perimeter:	0	UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
Flooring to be easily and frequently cleaned
Do we need a double door in lieu of 1 1/2 door for carting supplies in and out?
Flexible wall options between pods

Room Function Number: 09.210.0025

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Bedside table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

tables and chairs in demo area

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

do we need 1 sink per bed?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0025

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ One projector per pod

COMMENTS

AV at teaching station, not at each bed

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 09.210.0026

Room Name	Flexible Skills Practice - Beds
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	No Light
User Room Number		Actual	0.00	Occupant	24
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Space Type	Education-Teaching Lab
		Perimeter:	0	UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
Flooring to be easily and frequently cleaned
Do we need a double door in lieu of 1 1/2 door for carting supplies in and out?
Flexible wall options between pods

Room Function Number: 09.210.0026

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Bedside table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

tables and chairs in demo area

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

do we need 1 sink per bed?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0026

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ One projector per pod

COMMENTS

AV at teaching station, not at each bed

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 09.210.0027

Room Name	Flexible Skills Practice - Beds
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	No Light
User Room Number		Actual	0.00	Occupant	24
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Space Type	Education-Teaching Lab
		Perimeter:	0	UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
Flooring to be easily and frequently cleaned
Do we need a double door in lieu of 1 1/2 door for carting supplies in and out?
Flexible wall options between pods

Room Function Number: 09.210.0027

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Bedside table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

tables and chairs in demo area

Room Function Number: 09.210.0027

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

do we need 1 sink per bed?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0027

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ One projector per pod

COMMENTS

AV at teaching station, not at each bed

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 09.210.0028

Room Name	Flexible Skills Practice - Beds
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	No Light
User Room Number		Actual	0.00	Occupant	24
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Space Type	Education-Teaching Lab
		Perimeter:	0	UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
Flooring to be easily and frequently cleaned
Do we need a double door in lieu of 1 1/2 door for carting supplies in and out?
Flexible wall options between pods

Room Function Number: 09.210.0028

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Bedside table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

tables and chairs in demo area

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

do we need 1 sink per bed?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0028

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ One projector per pod

COMMENTS

AV at teaching station, not at each bed

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 09.210.0029

Room Name	Flexible Skills Practice - Beds
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	No Light
User Room Number		Actual	0.00	Occupant	24
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Space Type	Education-Teaching Lab
		Perimeter:	0	UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
Flooring to be easily and frequently cleaned
Do we need a double door in lieu of 1 1/2 door for carting supplies in and out?
Flexible wall options between pods

Room Function Number: 09.210.0029

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Bedside table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

tables and chairs in demo area

Room Function Number: 09.210.0029

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

do we need 1 sink per bed?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0029

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ One projector per pod

COMMENTS

AV at teaching station, not at each bed

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 09.210.0030

Room Name	Flexible Skills Practice - Beds
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	No Light
User Room Number		Actual	0.00	Occupant	24
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Space Type	Education-Teaching Lab
		Perimeter:	0	UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
Flooring to be easily and frequently cleaned
Do we need a double door in lieu of 1 1/2 door for carting supplies in and out?
Flexible wall options between pods

Room Function Number: 09.210.0030

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Bedside table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

tables and chairs in demo area

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

do we need 1 sink per bed?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0030

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ One projector per pod

COMMENTS

AV at teaching station, not at each bed

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 09.210.0031

Room Name	Flexible Skills Practice - Beds
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	No Light
User Room Number		Actual	0.00	Occupant	24
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Space Type	Education-Teaching Lab
		Perimeter:	0	UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
Flooring to be easily and frequently cleaned
Do we need a double door in lieu of 1 1/2 door for carting supplies in and out?
Flexible wall options between pods

Room Function Number: 09.210.0031

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Bedside table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

tables and chairs in demo area

Room Function Number: 09.210.0031

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

do we need 1 sink per bed?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0031

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ One projector per pod

COMMENTS

AV at teaching station, not at each bed

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 09.210.0032

Room Name	Flexible Skills Practice Teaching - Demonstration Area
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	No Light
User Room Number		Actual	0.00	Occupant	2
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Space Type	Education-Teaching Lab
		Perimeter:	0	UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
Flooring to be easily and frequently cleaned
Do we need a double door in lieu of 1 1/2 door for carting supplies in and out?
Flexible wall options between pods

Room Function Number: 09.210.0032

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Bedside table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

tables and chairs in demo area

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

do we need 1 sink per bed?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0032

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ One projector per pod

COMMENTS

AV at teaching station, not at each bed

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 09.210.0033

Room Name	Flexible Skills Practice Teaching - Student Area
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number
User Room Number

Areas

Programmed	0.00
Actual	0.00
Height:	0
Perimeter:	0
Feasibility NSF	256

Groups / Classifications / Status

Borrowed Light	No Light
Occupant	30
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.210.0033

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

Room Function Number: 09.210.0033

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.210.0033

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

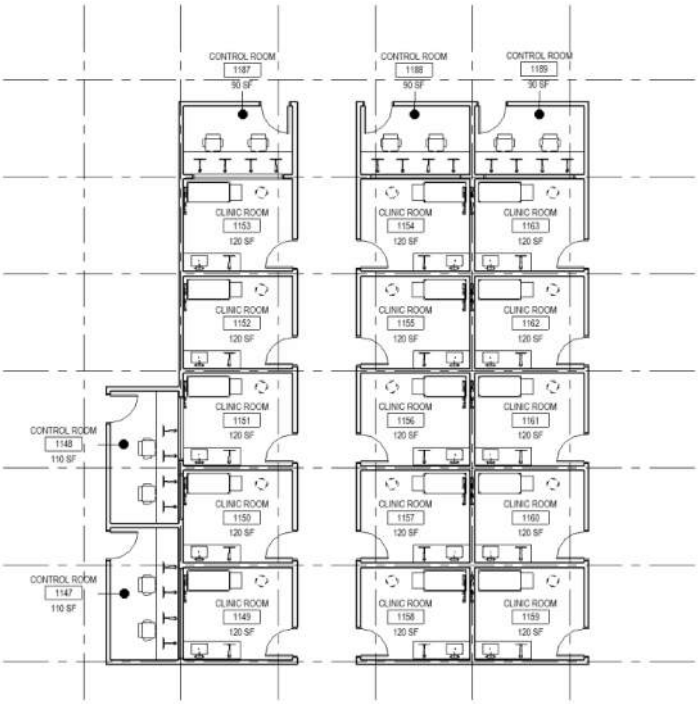
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

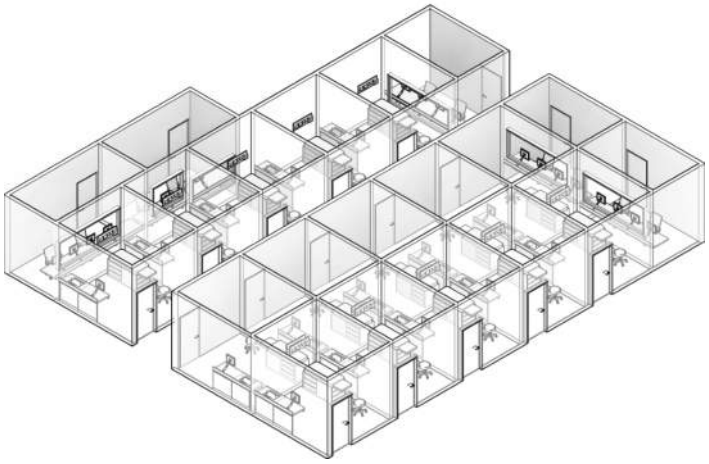
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.210.0034

Room Name	Home Care Simulation
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization	Areas		Groups / Classifications / Status	
Room Number	Programmed	0.00	Borrowed Light	Light
User Room Number	Actual	0.00	Occupant	0
	Height:	0	Space Type	Education-Teaching Lab
	Perimeter:	0	UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.210.0034

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

Room Function Number: 09.210.0034

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.210.0034

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

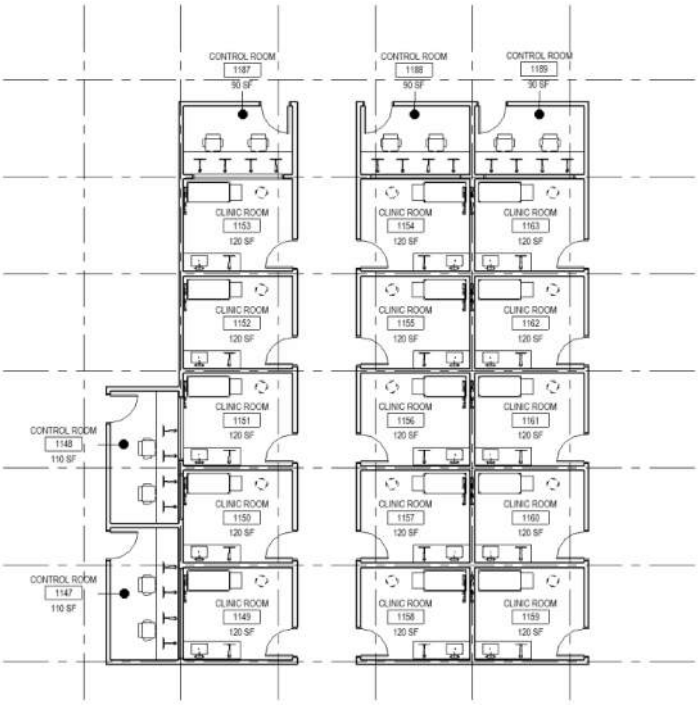
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

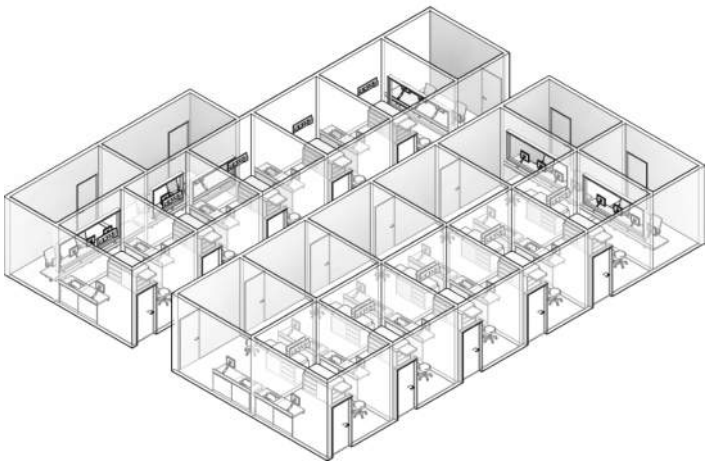
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.210.0035

Room Name	Simulation - Control Room
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-F
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848
IFCID	3gieX4YNLB0hj56mCooqQy
Revit Level	LEVEL 5

Areas

Programmed	200.00
Actual	202.20
Height:	0
Perimeter:	62.93

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 09.210.0035

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Numerous computers (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: manikin remotes
Item 2	☐				
Item 3	☐				
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

Room Function Number: 09.210.0035

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

Sound isolation for AV

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☐
Power at Table	☑
Data	☑
Phone	☑
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☑
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

Wifi and hardwire access for internet at tables
Usually working in the dark so adjustable lights would be nice
No such thing as too many outlets in this space

Room Function Number: 09.210.0035

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

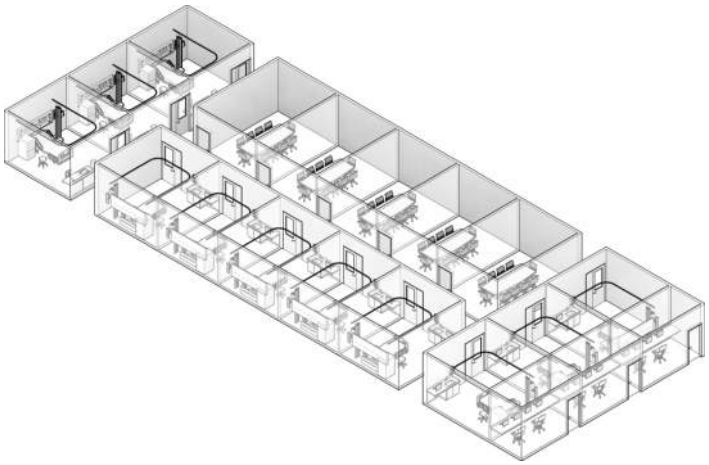
Projection	☐
Flat Panel Display	☑
Camera	☑
Microphone	☑
Distance Learning	☑
Other:	☐

COMMENTS

AV system

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS



Room Function Number: 09.210.0036

Room Name	Simulation - Debrief
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-G
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848
IFCID	3gieX4YNLB0hj56mCooqR5
Revit Level	LEVEL 5

Areas

Programmed	250.00
Actual	212.00
Height:	0
Perimeter:	58.5
Feasibility NSF	120

Groups / Classifications / Status

Borrowed Light	Light
From Model Phase	New Construction
Occupant	8
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 09.210.0036

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Computer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: for teaching
Item 2	☐				
Item 3	☐				
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

tables and chairs

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0036

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

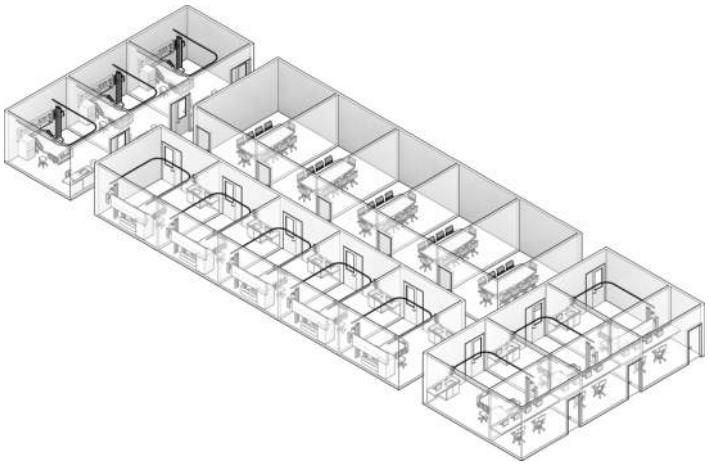
Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☑
Other:	☐

COMMENTS

large monitor for teaching

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS



Room Function Number: 09.210.0037

Room Name	Simulation - Debrief
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-G
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	250.00	Borrowed Light	Light
User Room Number		Actual	263.20	From Model Phase	New Construction
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Occupant	8
		Perimeter:	67	Revit Model	UWEC-HOK-AR
		Feasibility NSF	120	Revit Sync Date	2021-04-06
IFCID	3gieX4YNLB0hj56mCooqR0			Space Type	Education-Teaching Lab
Revit Level	LEVEL 5			UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 09.210.0037

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Computer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: for teaching
Item 2	☐				
Item 3	☐				
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

tables and chairs

Room Function Number: 09.210.0037

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0037

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

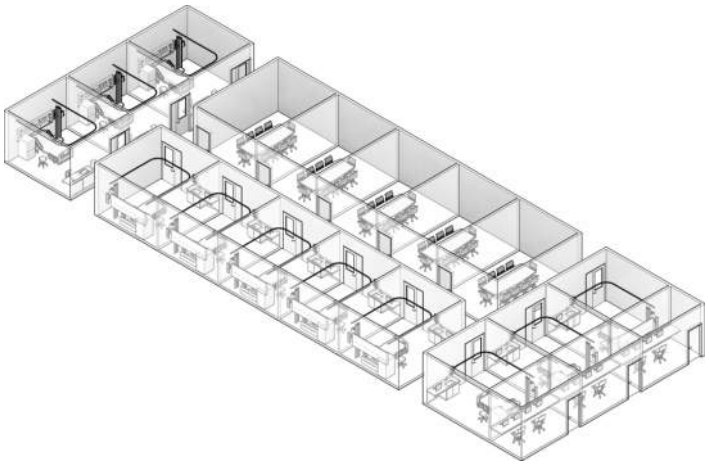
Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☑
Other:	☐

COMMENTS

large monitor for teaching

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS



Room Function Number: 09.210.0038

Room Name	Simulation - Debrief
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-G
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization	
Room Number	
User Room Number	
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848
IFCID	3gieX4YNLB0hj56mCooqR3
Revit Level	LEVEL 5

Areas	
Programmed	250.00
Actual	263.20
Height:	0
Perimeter:	67
Feasibility NSF	120

Groups / Classifications / Status	
Borrowed Light	Light
From Model Phase	New Construction
Occupant	8
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 09.210.0038

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Computer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: for teaching
Item 2	☐				
Item 3	☐				
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

tables and chairs

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0038

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

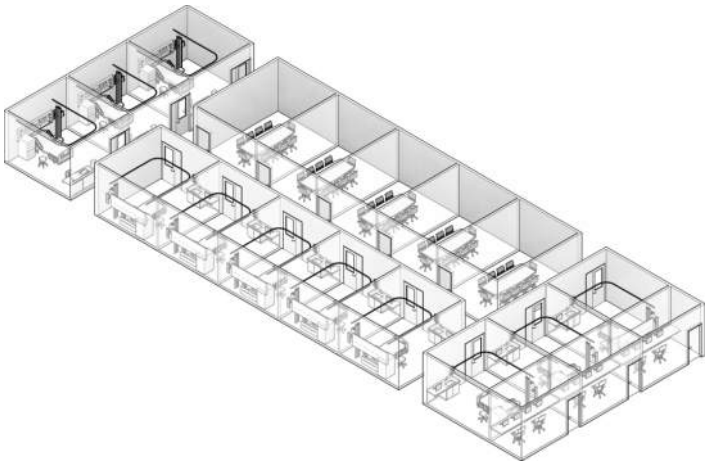
Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☑
Other:	☐

COMMENTS

large monitor for teaching

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS



Room Function Number: 09.210.0039

Room Name	Simulation - Debrief
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-G
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848
IFCID	3gieX4YNLB0hj56mCooqRE
Revit Level	LEVEL 5

Areas

Programmed	250.00
Actual	263.20
Height:	0
Perimeter:	67
Feasibility NSF	120

Groups / Classifications / Status

Borrowed Light	Light
From Model Phase	New Construction
Occupant	8
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 09.210.0039

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Computer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: for teaching
Item 2	☐				
Item 3	☐				
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

tables and chairs

Room Function Number: 09.210.0039

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0039

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

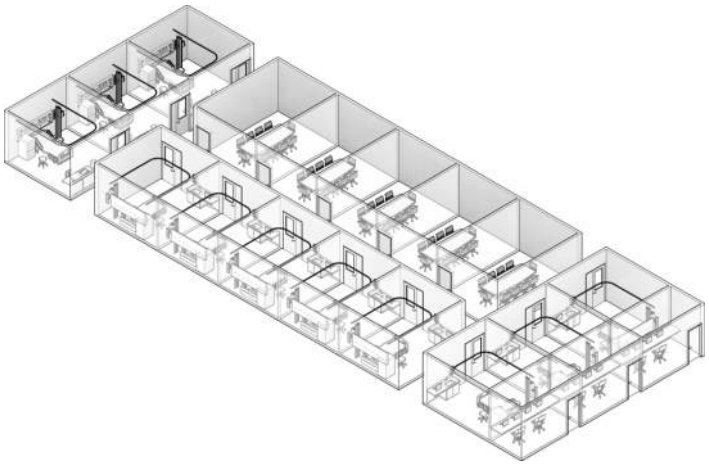
Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☑
Other:	☐

COMMENTS

large monitor for teaching

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS



Room Function Number: 09.210.0040

Room Name	Simulation - Debrief
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-G
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	250.00	Borrowed Light	Light
User Room Number		Actual	263.20	From Model Phase	New Construction
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Occupant	8
		Perimeter:	67	Revit Model	UWEC-HOK-AR
		Feasibility NSF	120	Revit Sync Date	2021-04-06
IFCID	3gieX4YNLB0hj56mCooqR9			Space Type	Education-Teaching Lab
Revit Level	LEVEL 5			UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☑
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☑
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☑
- Crash Rails ☑
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☑
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☑
- Integral ☐
- Material:

CEILINGS
- Open ☐
- Acoustic Tile ☑
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 09.210.0040

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Computer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: for teaching
Item 2	☐				
Item 3	☐				
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

tables and chairs

Room Function Number: 09.210.0040

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0040

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

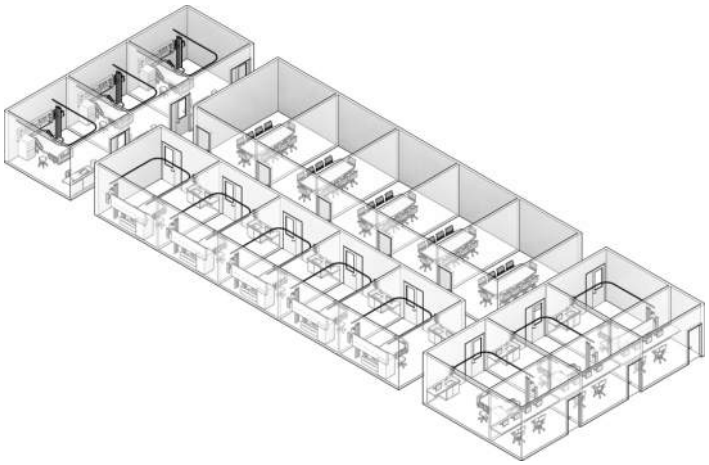
Projection	☑
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☑
Other:	☐

COMMENTS

large monitor for teaching

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS



Room Function Number: 09.210.0041

Room Name	Simulation - Flexible
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-E
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	256.00	Borrowed Light	No Light
User Room Number		Actual	200.00	From Model Phase	New Construction
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Occupant	4
		Perimeter:	57	Revit Model	UWEC-HOK-AR
		Feasibility NSF	256	Revit Sync Date	2021-04-06
IFCID	3gieX4YNLB0hj56mCooqQP			Space Type	Education-Teaching Lab
Revit Level	LEVEL 5			UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 09.210.0041

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: bed/table/various patient surfaces
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Patient Monitor (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 4	☑	Manikan (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 5	☑	Computer for charting (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

Room Function Number: 09.210.0041

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

sound isolation for AV

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

focused lighting near bed, maybe different in different rooms

Room Function Number: 09.210.0041

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

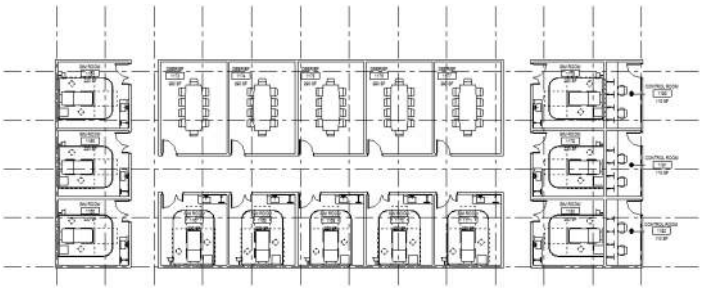
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☐

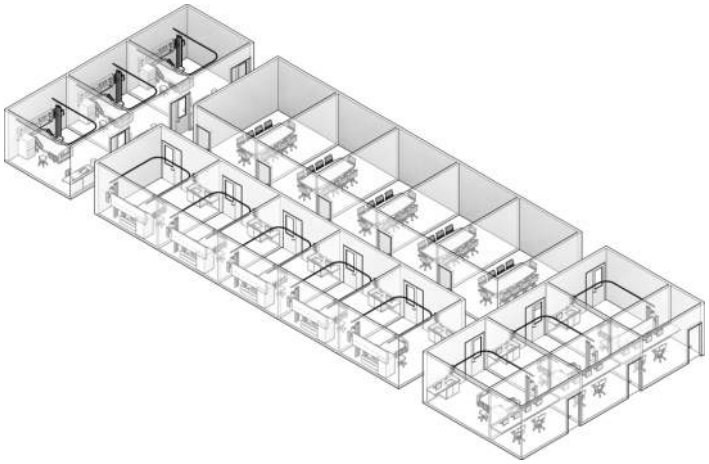
COMMENTS

AV for simulation
Will need wire access from the control rooms to the sim rooms for equipment that has to be wired to their control (ex: Lardeal monitors)
For future - have some additional electrical runs and conduit and cover plates

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 09.210.0042

Room Name	Simulation - Flexible
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-E
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	256.00	Borrowed Light	No Light
User Room Number		Actual	200.00	From Model Phase	New Construction
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Occupant	4
		Perimeter:	57	Revit Model	UWEC-HOK-AR
		Feasibility NSF	256	Revit Sync Date	2021-04-06
IFCID	3gieX4YNLB0hj56mCooqQa			Space Type	Education-Teaching Lab
Revit Level	LEVEL 5			UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 09.210.0042

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: bed/table/various patient surfaces
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Patient Monitor (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 4	☑	Manikan (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 5	☑	Computer for charting (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

Room Function Number: 09.210.0042

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

sound isolation for AV

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

focused lighting near bed, maybe different in different rooms

Room Function Number: 09.210.0042

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

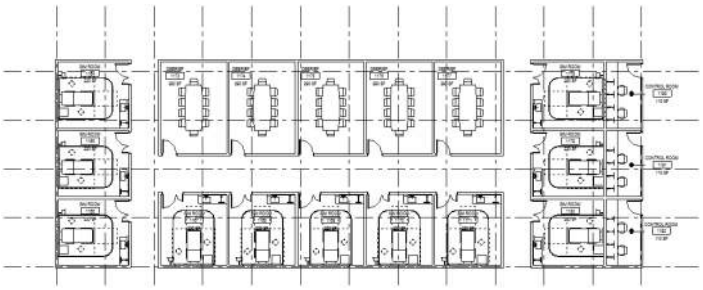
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☐

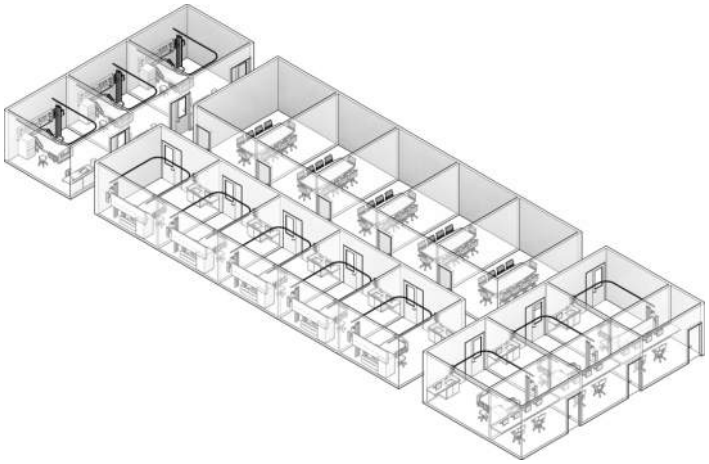
COMMENTS

AV for simulation
Will need wire access from the control rooms to the sim rooms for equipment that has to be wired to their control (ex: Lardeal monitors)
For future - have some additional electrical runs and conduit and cover plates

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 09.210.0043

Room Name	Simulation - Flexible
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-E
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	256.00	Borrowed Light	No Light
User Room Number		Actual	200.00	From Model Phase	New Construction
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Occupant	4
		Perimeter:	57	Revit Model	UWEC-HOK-AR
		Feasibility NSF	256	Revit Sync Date	2021-04-06
IFCID	3gieX4YNLB0hj56mCooqQd			Space Type	Education-Teaching Lab
Revit Level	LEVEL 5			UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 09.210.0043

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: bed/table/various patient surfaces
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Patient Monitor (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 4	☑	Manikan (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 5	☑	Computer for charting (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

Room Function Number: 09.210.0043

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

sound isolation for AV

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

focused lighting near bed, maybe different in different rooms

Room Function Number: 09.210.0043

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

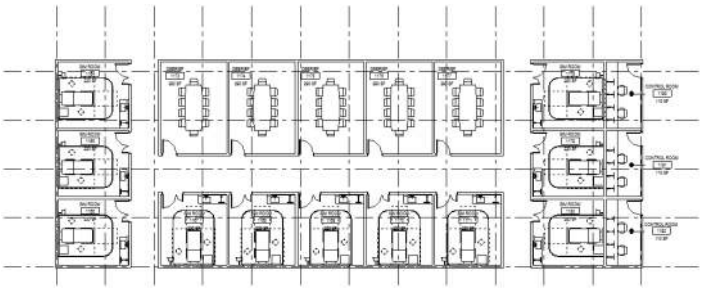
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☐

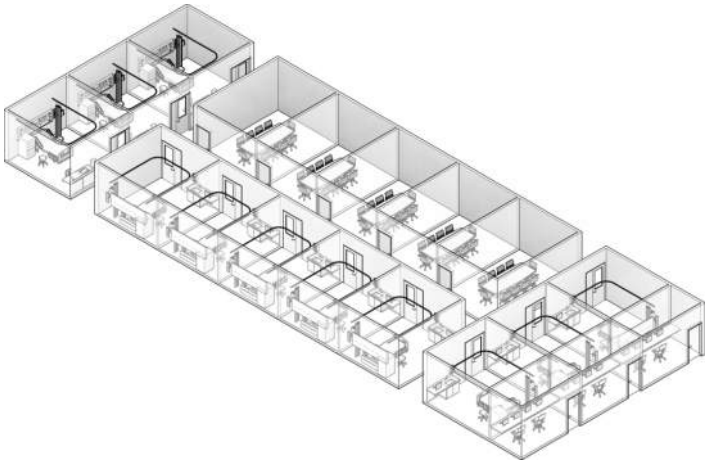
COMMENTS

AV for simulation
Will need wire access from the control rooms to the sim rooms for equipment that has to be wired to their control (ex: Lardeal monitors)
For future - have some additional electrical runs and conduit and cover plates

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 09.210.0044

Room Name	Simulation - Flexible
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-E
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	256.00	Borrowed Light	No Light
User Room Number		Actual	200.00	From Model Phase	New Construction
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Occupant	4
		Perimeter:	57	Revit Model	UWEC-HOK-AR
		Feasibility NSF	256	Revit Sync Date	2021-04-06
IFCID	3gieX4YNLB0hj56mCooqQY			Space Type	Education-Teaching Lab
Revit Level	LEVEL 5			UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 09.210.0044

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: bed/table/various patient surfaces
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Patient Monitor (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 4	☑	Manikan (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 5	☑	Computer for charting (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

sound isolation for AV

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

focused lighting near bed, maybe different in different rooms

Room Function Number: 09.210.0044

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

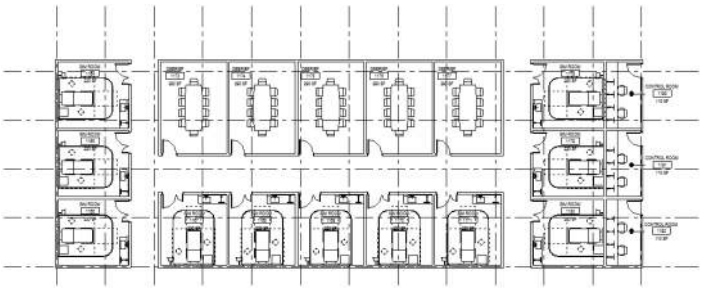
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☐

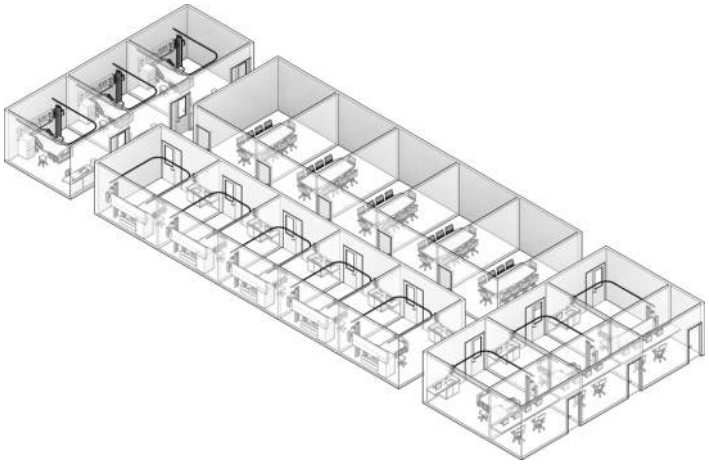
COMMENTS

AV for simulation
Will need wire access from the control rooms to the sim rooms for equipment that has to be wired to their control (ex: Lardeal monitors)
For future - have some additional electrical runs and conduit and cover plates

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 09.210.0045

Room Name	Simulation - Standard
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-E
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	256.00	Borrowed Light	No Light
User Room Number		Actual	208.68	From Model Phase	New Construction
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Occupant	4
		Perimeter:	59.97	Revit Model	UWEC-HOK-AR
		Feasibility NSF	256	Revit Sync Date	2021-04-06
IFCID	3gieX4YNLB0hj56mCooqQj			Space Type	Education-Teaching Lab
Revit Level	LEVEL 5			UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 09.210.0045

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: bed/table/various patient surfaces
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Patient Monitor (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 4	☑	Manikan (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 5	☑	Computer for charting (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

Room Function Number: 09.210.0045

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

sound isolation for AV

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

focused lighting near bed, maybe different in different rooms

Room Function Number: 09.210.0045

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

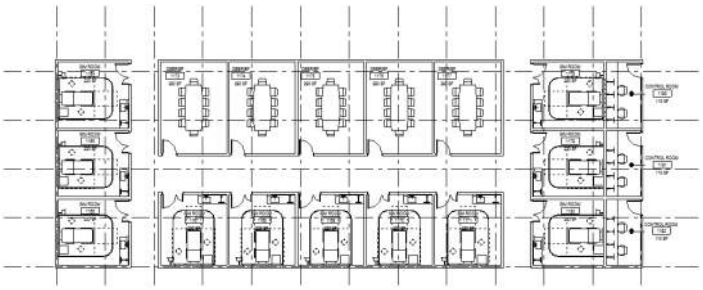
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☐

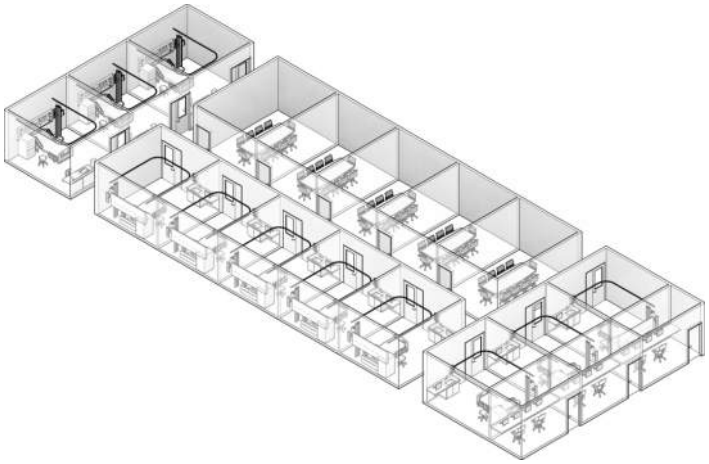
COMMENTS

AV for simulation
Will need wire access from the control rooms to the sim rooms for equipment that has to be wired to their control (ex: Lardeal monitors)
For future - have some additional electrical runs and conduit and cover plates

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 09.210.0046

Room Name	Simulation - Standard
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-E
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	256.00	Borrowed Light	No Light
User Room Number		Actual	208.68	From Model Phase	New Construction
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Occupant	4
		Perimeter:	59.97	Revit Model	UWEC-HOK-AR
		Feasibility NSF	256	Revit Sync Date	2021-04-06
IFCID	3gieX4YNLB0hj56mCooqQe			Space Type	Education-Teaching Lab
Revit Level	LEVEL 5			UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 09.210.0046

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: bed/table/various patient surfaces
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Patient Monitor (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 4	☑	Manikan (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 5	☑	Computer for charting (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

sound isolation for AV

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

focused lighting near bed, maybe different in different rooms

Room Function Number: 09.210.0046

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

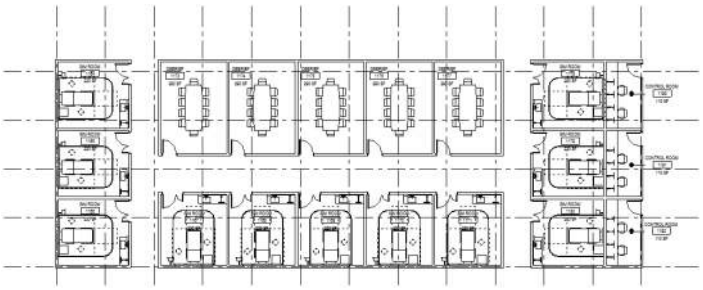
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☐

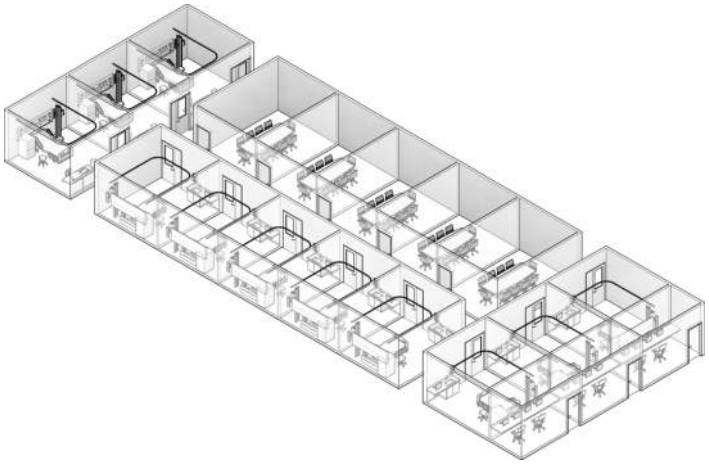
COMMENTS

AV for simulation
Will need wire access from the control rooms to the sim rooms for equipment that has to be wired to their control (ex: Lardeal monitors)
For future - have some additional electrical runs and conduit and cover plates

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 09.210.0047

Room Name	Simulation - Standard
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-E
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	256.00	Borrowed Light	No Light
User Room Number		Actual	208.68	From Model Phase	New Construction
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Occupant	4
		Perimeter:	59.97	Revit Model	UWEC-HOK-AR
		Feasibility NSF	256	Revit Sync Date	2021-04-06
IFCID	3gieX4YNLB0hj56mCooqQh			Space Type	Education-Teaching Lab
Revit Level	LEVEL 5			UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 09.210.0047

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: bed/table/various patient surfaces
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Patient Monitor (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 4	☑	Manikan (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 5	☑	Computer for charting (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

Room Function Number: 09.210.0047

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

sound isolation for AV

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

focused lighting near bed, maybe different in different rooms

Room Function Number: 09.210.0047

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

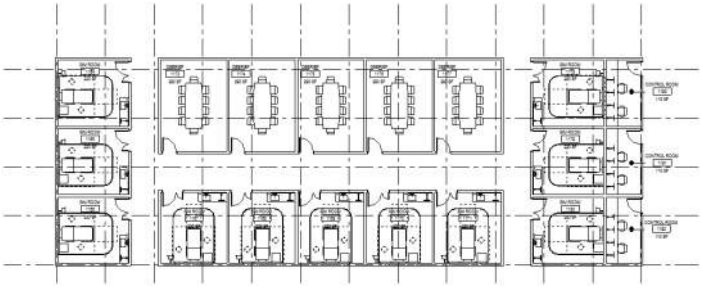
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☐

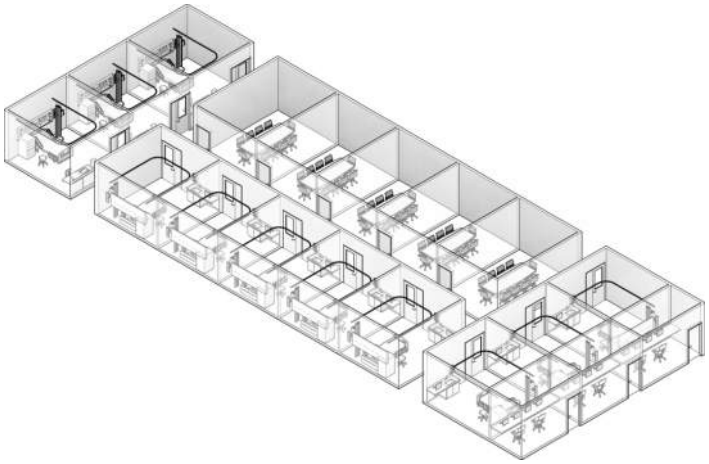
COMMENTS

AV for simulation
Will need wire access from the control rooms to the sim rooms for equipment that has to be wired to their control (ex: Lardeal monitors)
For future - have some additional electrical runs and conduit and cover plates

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 09.210.0048

Room Name	Simulation - Standard
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-E
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	256.00	Borrowed Light	No Light
User Room Number		Actual	208.68	From Model Phase	New Construction
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Occupant	4
		Perimeter:	59.97	Revit Model	UWEC-HOK-AR
		Feasibility NSF	256	Revit Sync Date	2021-04-06
IFCID	3gieX4YNLB0hj56mCooqQs			Space Type	Education-Teaching Lab
Revit Level	LEVEL 5			UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 09.210.0048

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: bed/table/various patient surfaces
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Patient Monitor (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 4	☑	Manikan (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 5	☑	Computer for charting (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

Room Function Number: 09.210.0048

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

sound isolation for AV

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

focused lighting near bed, maybe different in different rooms

Room Function Number: 09.210.0048

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

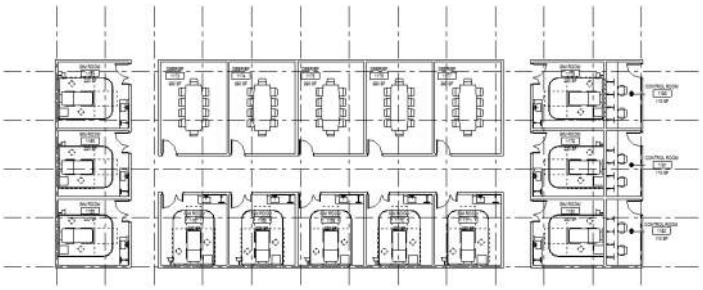
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☐

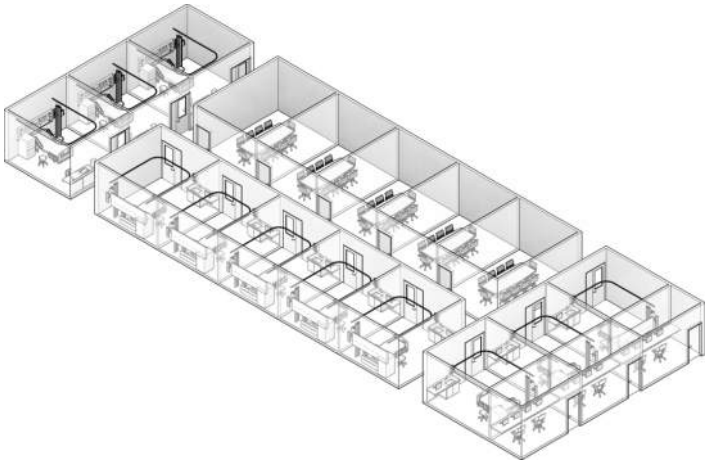
COMMENTS

AV for simulation
Will need wire access from the control rooms to the sim rooms for equipment that has to be wired to their control (ex: Lardeal monitors)
For future - have some additional electrical runs and conduit and cover plates

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 09.210.0049

Room Name	Simulation - Standard
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-E
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	256.00	Borrowed Light	No Light
User Room Number		Actual	208.68	From Model Phase	New Construction
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Occupant	4
		Perimeter:	59.97	Revit Model	UWEC-HOK-AR
		Feasibility NSF	256	Revit Sync Date	2021-04-06
IFCID	3gieX4YNLB0hj56mCooq5F			Space Type	Education-Teaching Lab
Revit Level	LEVEL 5			UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 09.210.0049

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: bed/table/various patient surfaces
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Patient Monitor (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 4	☑	Manikan (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 5	☑	Computer for charting (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

Room Function Number: 09.210.0049

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

sound isolation for AV

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

focused lighting near bed, maybe different in different rooms

Room Function Number: 09.210.0049

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

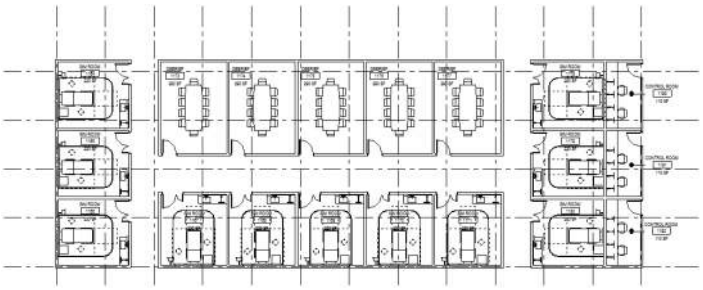
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☐

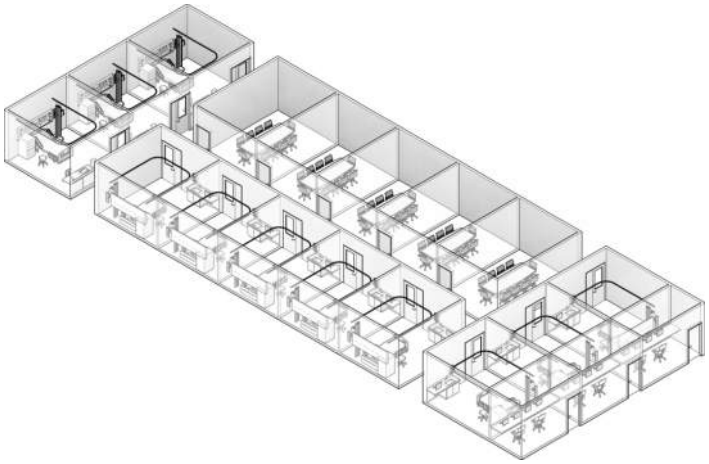
COMMENTS

AV for simulation
Will need wire access from the control rooms to the sim rooms for equipment that has to be wired to their control (ex: Lardeal monitors)
For future - have some additional electrical runs and conduit and cover plates

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 09.210.0050

Room Name	Simulation - Standard
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-E
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization	
Room Number	
User Room Number	
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848
IFCID	3bVYY0S1v0JhiQgvwMH7up
Revit Level	LEVEL 5

Areas	
Programmed	256.00
Actual	200.00
Height:	0
Perimeter:	57
Feasibility NSF	256

Groups / Classifications / Status	
Borrowed Light	No Light
From Model Phase	New Construction
Occupant	4
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 09.210.0050

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Hospital bed (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: bed/table/various patient surfaces
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 3	☑	Patient Monitor (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 4	☑	Manikan (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 5	☑	Computer for charting (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power and wifi
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

Room Function Number: 09.210.0050

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

sound isolation for AV

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

focused lighting near bed, maybe different in different rooms

Room Function Number: 09.210.0050

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

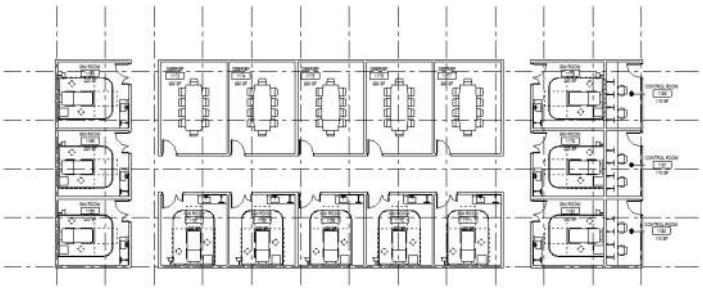
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☐

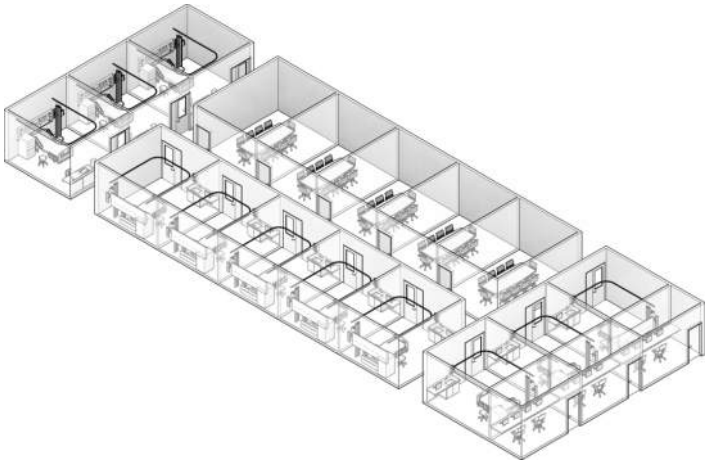
COMMENTS

AV for simulation
Will need wire access from the control rooms to the sim rooms for equipment that has to be wired to their control (ex: Lardeal monitors)
For future - have some additional electrical runs and conduit and cover plates

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 09.210.0051

Room Name	Skills Practice - Student Independent Practice
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-H
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	No Light
User Room Number		Actual	0.00	Occupant	1
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848	Height:	0	Space Type	Education-Teaching Lab
		Perimeter:	0	UWEC FICM Number	210 - Class Laboratory
		Feasibility NSF	300		

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [ ] 14 hours/day
- [x] 24 hours/day
- [ ] Other:

COMMENTS
24/7 access for students

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 09.210.0051

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☐
Lockable Cabinets	☑
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☐
Plastic Laminate	☑
Phenolic	☐
Other:	☐

COMMENTS

lockable cabinets very important in this space

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑ Headwalls (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 2	☑ Wall mount tools (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: requires power
Item 3	☑ Beds (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Room Function Number: 09.210.0051

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☑ Wall
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.210.0051

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☑
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

consider video surveillance

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS	Thoughtful location in building to allow 24/7 access to students. Goal of this space is to allow independent learner practice; focus on safety for humans and manikans

Room Function Number: 09.210.0053

Room Name	Student Charting Area
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848
IFCID	3bVYY0S1v0JhiQgvwMH7ut
Revit Level	LEVEL 5

Areas

Programmed	200.00
Actual	128.99
Height:	0
Perimeter:	54.17

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.210.0053

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

Room Function Number: 09.210.0053

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.210.0053

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

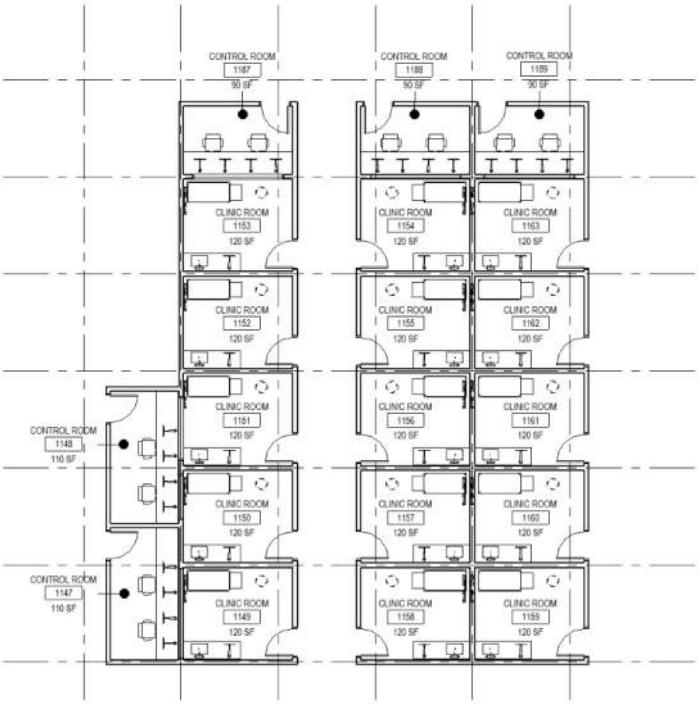
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

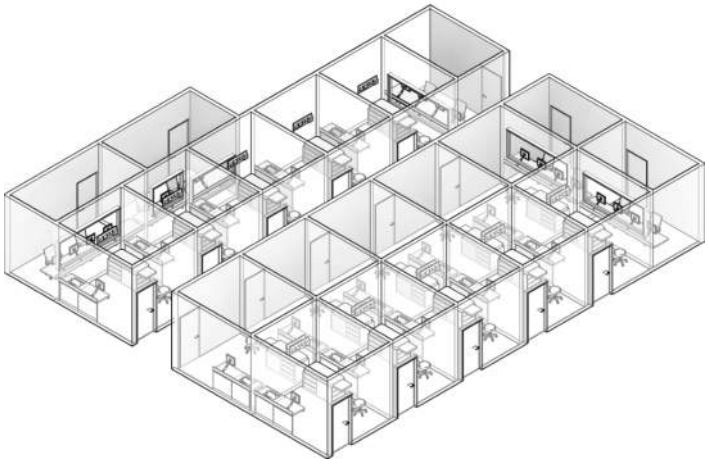
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.210.0064

Room Name	Simulation - Control Room
Function Location:	09 - Nursing / 210 - Class Laboratory
Room Data Status	From TL_NURS-F
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	267, 317, 367, 359, 424, 447, 428, 477, 704/708, 812/814, 816/818, 842/844, 846/848
IFCID	3gieX4YNLB0hj56mCooqQ$
Revit Level	LEVEL 5

Areas

Programmed	200.00
Actual	202.20
Height:	0
Perimeter:	62.93

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION

- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING

- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE

- [x] Applied
- [ ] Integral

Material:

CEILINGS

- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1

Size: 3'-0" x 8'-0"

Type: 1/2 Vision Panel

Material: Wood

DOOR 2

Size: 4'-6" x 8'-0"

Type: 1/2 Vision Panel

Material: Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 09.210.0064

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Numerous computers (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: manikin remotes
Item 2	☐				
Item 3	☐				
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

Room Function Number: 09.210.0064

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

Sound isolation for AV

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☐
Power at Table	☑
Data	☑
Phone	☑
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☑
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

Wifi and hardwire access for internet at tables
Usually working in the dark so adjustable lights would be nice
No such thing as too many outlets in this space

Room Function Number: 09.210.0064

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

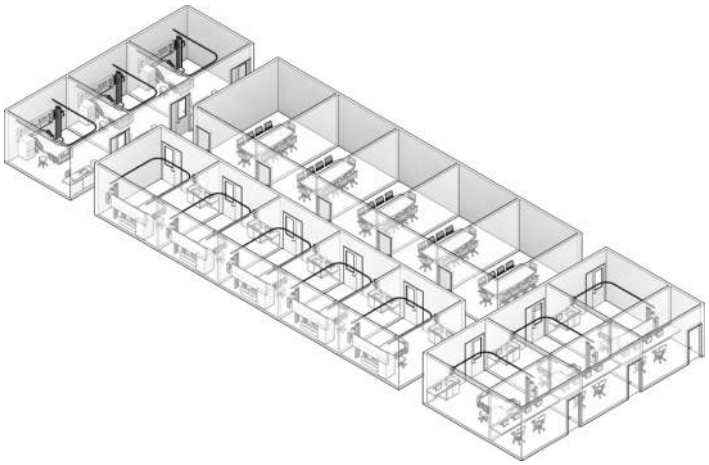
Projection	☐
Flat Panel Display	☑
Camera	☑
Microphone	☑
Distance Learning	☑
Other:	☐

COMMENTS

AV system

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS



Room Function Number: 09.215.0001

Room Name	Clinic Rooms - Control Room
Function Location:	09 - Nursing / 215 - Class Laboratory Service
Room Data Status	From TL_NURS-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooq4C
Revit Level	LEVEL 5

Areas

Programmed	0.00
Actual	158.44
Height:	0
Perimeter:	56.67

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Consider one-way windows

Room Function Number: 09.215.0001

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☐
Power at Table	☑
Data	☑
Phone	☑
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☑
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

thoughtful lighting to allow monitors to be seen

Room Function Number: 09.215.0001

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

COMMENTS

AV control center

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS	Thoughtful location to clinic rooms and clinic observation 09.215.0002

Room Function Number: 09.215.0002

Room Name	Clinic Rooms - Observation Area
Function Location:	09 - Nursing / 215 - Class Laboratory Service
Room Data Status	From TL_NURS-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooq41
Revit Level	LEVEL 5

Areas

Programmed	0.00
Actual	147.92
Height:	0
Perimeter:	59.83

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [x] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 09.215.0002

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

Will depend on how this space ends up being located

Room Function Number: 09.215.0002

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☑
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

thoughtful lighting for viewing

Room Function Number: 09.215.0002

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 09.215.0003

Room Name	Standardized Patient - Change Room
Function Location:	09 - Nursing / 215 - Class Laboratory Service
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooq56
Revit Level	LEVEL 5

Areas

Programmed	110.00
Actual	99.15
Height:	0
Perimeter:	39.83

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.215.0003

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

Room Function Number: 09.215.0003

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.215.0003

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

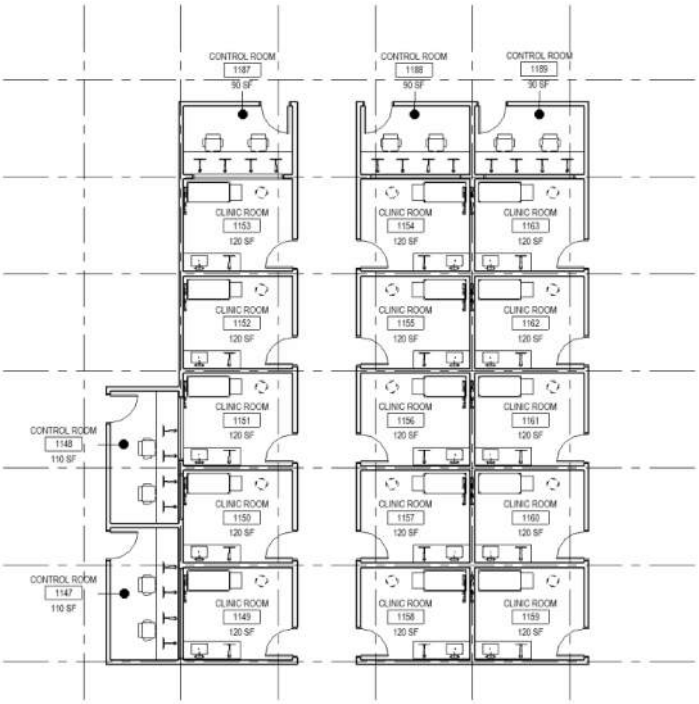
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

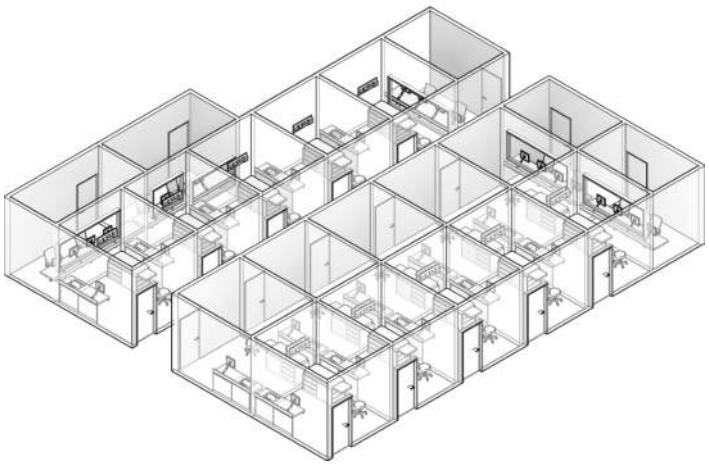
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.215.0004

Room Name	
Function Location:	09 - Nursing / 215 - Class Laboratory Service
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization	
Room Number	
User Room Number	

Areas	
Programmed	0.00
Actual	0.00
Height:	0
Perimeter:	0

Groups / Classifications / Status	
Borrowed Light	No Light
Occupant	0
Space Type	Education-Teaching Lab
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.215.0004

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 2	☑	Wall mount tools (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐ Notes: requires power
Item 3	☑	Mayo Stand (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 4	☐	
Item 5	☐	
Item 6	☐	
Item 7	☐	
Item 8	☐	
Item 9	☐	
Item 10	☐	

COMMENTS

Room Function Number: 09.215.0004

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.215.0004

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

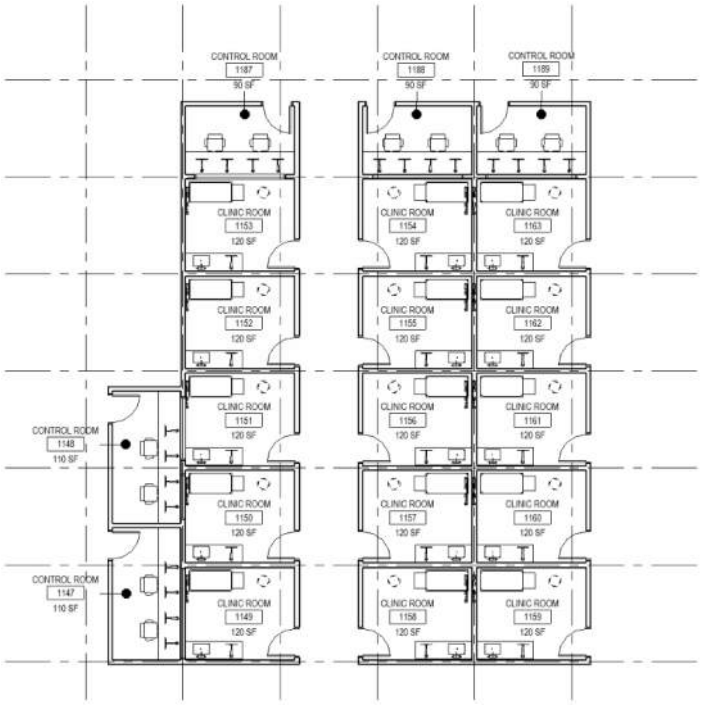
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

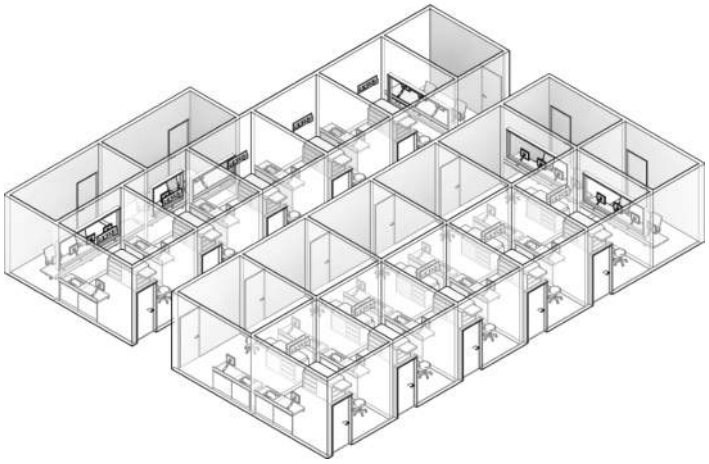
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.215.0006

Room Name	Standardized Patient - Lounge Area/Briefing
Function Location:	09 - Nursing / 215 - Class Laboratory Service
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
IFCID	3bVYY0S1v0JhiQgvwMH7ux
Revit Level	LEVEL 5

Areas

Programmed	110.00
Actual	0.00
Height:	0
Perimeter:	0

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.215.0006

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

Room Function Number: 09.215.0006

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.215.0006

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

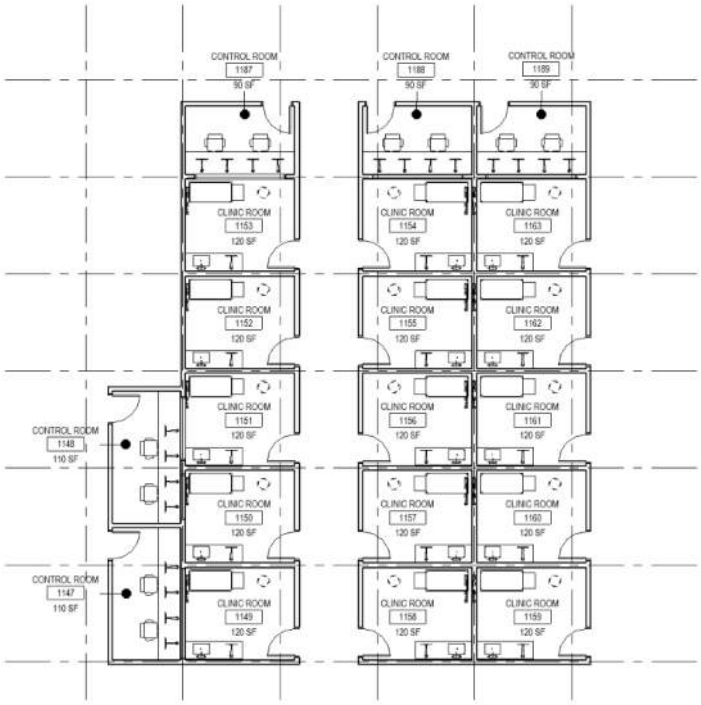
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

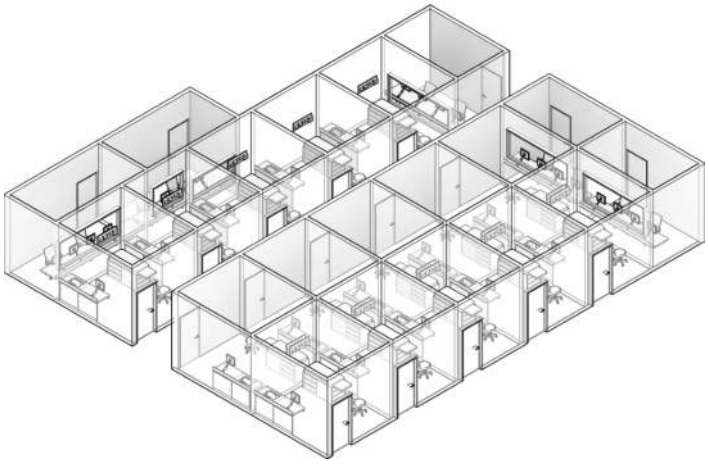
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.215.0007

Room Name	Standardized Patient - Reception / Waiting Area
Function Location:	09 - Nursing / 215 - Class Laboratory Service
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooq51
Revit Level	LEVEL 5

Areas

Programmed	200.00
Actual	99.15
Height:	0
Perimeter:	39.83
Feasibility NSF	960

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.215.0007

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.215.0007

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

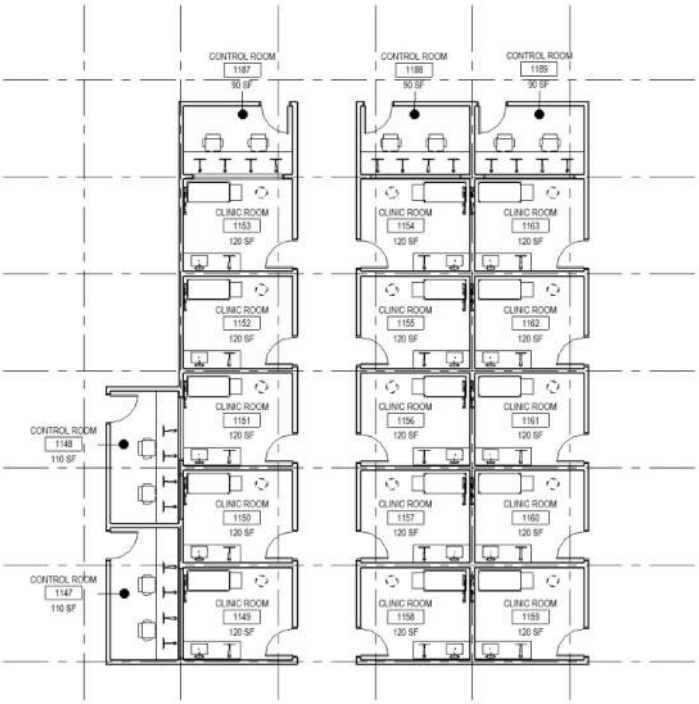
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

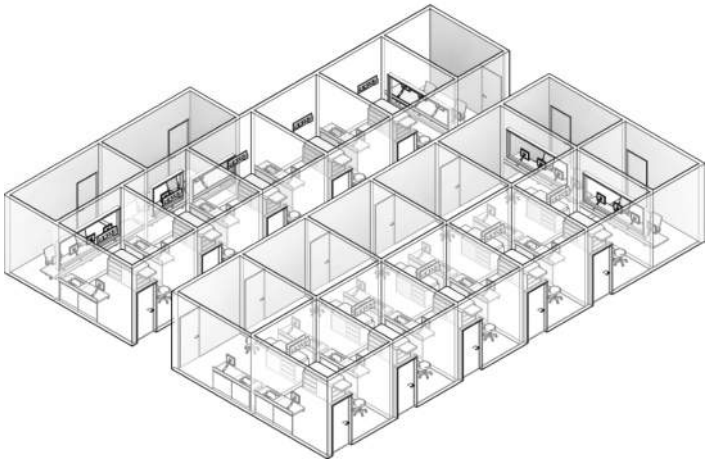
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.215.0008

Room Name	Standardized Patient - Storage
Function Location:	09 - Nursing / 215 - Class Laboratory Service
Room Data Status	From TL_NURS-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number
User Room Number

Areas

Programmed	0.00
Actual	0.00
Height:	0
Perimeter:	0

Groups / Classifications / Status

Borrowed Light	Control
Occupant	0
Space Type	Education-Teaching Lab
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☑ 24/7 access for students to practice

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

not all rooms, but a few will need one-way viewing windows

Room Function Number: 09.215.0008

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☑
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Exam Table (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Wall mount tools (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power	
Item 3	☑	Mayo Stand (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☐					
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

Room Function Number: 09.215.0008

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

do not need sound isolation, but must prevent audio bleed

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Wall
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☑ Wall
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☑ Suction Wall

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (0)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☑
Prefer Natural Light	☐
Other:	☐

COMMENTS

task lighting either "in" the room or as a lamp

Room Function Number: 09.215.0008

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

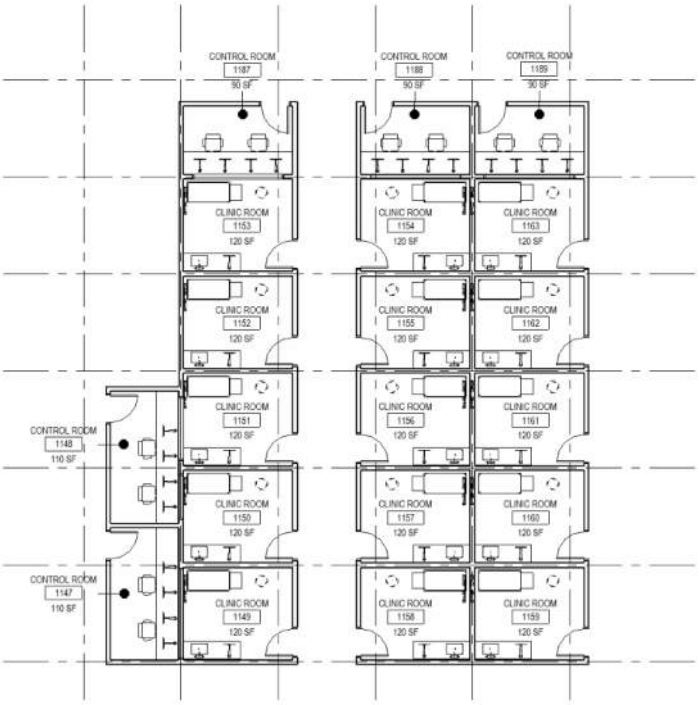
Projection	☐
Flat Panel Display	☐
Camera	☑
Microphone	☑
Distance Learning	☐
Other:	☑ Wifi

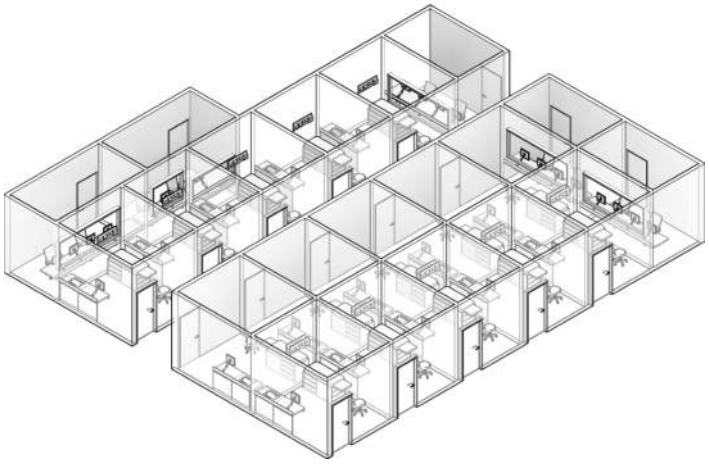
COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Thoughtful location to observation and control areas.
Thoughtful location to student charting space.





Room Function Number: 09.215.0009

Room Name	Storage
Function Location:	09 - Nursing / 215 - Class Laboratory Service
Room Data Status	From TL_NURS-J
Last modified	Niewoehner, Daniel, 4/22/2021 12:12 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqQw
Revit Level	LEVEL 5

Areas

Programmed	600.00
Actual	98.85
Height:	0
Perimeter:	39.97
Feasibility NSF	600

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Education-Teaching Lab
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☑
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 09.215.0009

CASEWORK

CASEWORK TYPE

Fixed Casework	☑
Movable Casework	☐
Wall Cabinets	☑
Wall Shelves	☐
Lockable Cabinets	☑
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☐
Plastic Laminate	☑
Phenolic	☐
Other:	☐

COMMENTS

cabinets around perimeter of room
create storage to maximize space for small and large items

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☐
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	work bench (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: for preparing supplies
Item 2	☑	rolling racks (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: in rows in middle of room
Item 3	☐				
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	76 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 10
Design Temp Heating:	68 F Range +/-: 2
Relative Humidity Heating:	25 % Range +/-: 10
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑ No. of Outlets: lots
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☑
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 09.215.0009

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 09.250.0001

Room Name	Wet Lab
Function Location:	09 - Nursing / 250 - Research Laboratory
Room Data Status	From RL_WET-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	100.00	Borrowed Light	No Light
User Room Number		Actual	0.00	From Model Phase	New Construction
IFCID	3bVYY0S1v0JhiQgvwMH7u$	Height:	0	Occupant	0
Revit Level	LEVEL 5	Perimeter:	0	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 09.250.0001

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

maybe lockable cabinets

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Refrigerator (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: requires power
Item 2	☐				
Item 3	☐				
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

Room Function Number: 09.250.0001

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

refrigerator on standby power

Room Function Number: 09.250.0001

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

room to be locked (key or card reader tbd)

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Selection

Room Group Type: UWEC FICM Number

Group: 210 - Class Laboratory, 215 - Class Laboratory Service, 220 - Open Laboratory, 225 - Open Laboratory Service, 250 - Research Laboratory , 255 - Research Laboratory Service, 570 - Animal Facilities, 575 - Animal Facilities Services, 580 - Greenhouse, 585 - Greenhouse Service

Room function: 13: Public Health and Environmental Studies

Room Function Number: 13.210.0001

Room Name	ENPH Classlab
Function Location:	13 - Public Health and Environmental Studies / 210 - Class Laboratory
Room Data Status	Unique
Last modified	Ivey, David, 2/5/2021 1:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	Control
User Room Number		Actual	0.00	Occupant	0
Course Number(s)	ENPH 441, 443, 445, 460, 490	Height:	0	UWEC FICM Number	210 - Class Laboratory
		Perimeter:	0		

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION

- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING

- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE

- Applied ☐
- Integral ☐

Material:

CEILINGS

- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1

Size:

Type:

Material:

DOOR 2

Size:

Type:

Material:

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 13.215.0001

Room Name	ENPH Storage
Function Location:	13 - Public Health and Environmental Studies / 215 - Class Laboratory Service
Room Data Status	Unique
Last modified	Ivey, David, 2/5/2021 1:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	500.00	Borrowed Light	No Light
User Room Number		Actual	502.12	From Model Phase	New Construction
IFCID	08FLbL28D2ZPVIVJVyBzGw	Height:	0	Occupant	1
Revit Level	LEVEL 4	Perimeter:	90.5	Revit Model	UWEC-HOK-AR
		Feasibility NSF	600	Revit Sync Date	2021-04-06
				UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 13.215.0002

Room Name	Prep Lab
Function Location:	13 - Public Health and Environmental Studies / 215 - Class Laboratory Service
Room Data Status	Unique
Last modified	Ivey, David, 2/5/2021 1:14 PM

Categorization

Room Number	
User Room Number	
IFCID	08FLbL28D2ZPVIVJVyBzG$
Revit Level	LEVEL 4

Areas

Programmed	100.00
Actual	102.38
Height:	0
Perimeter:	49.5

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 13.250.0002

Room Name	ENPH Wet Bench Research - Open Lab
Function Location:	13 - Public Health and Environmental Studies / 250 - Research Laboratory
Room Data Status	From RL_WATER-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	456.75	From Model Phase	New Construction
IFCID	08FLbL28D2ZPVIVJVyBzPB	Height:	0	Occupant	5
Revit Level	LEVEL 4	Perimeter:	89.5	Revit Model	UWEC-HOK-AR
		Feasibility NSF	500	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 13.250.0002

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

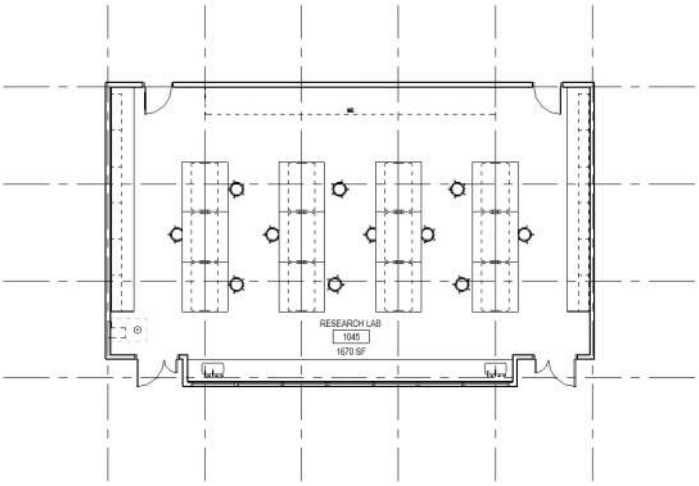
AUDIO VISUAL

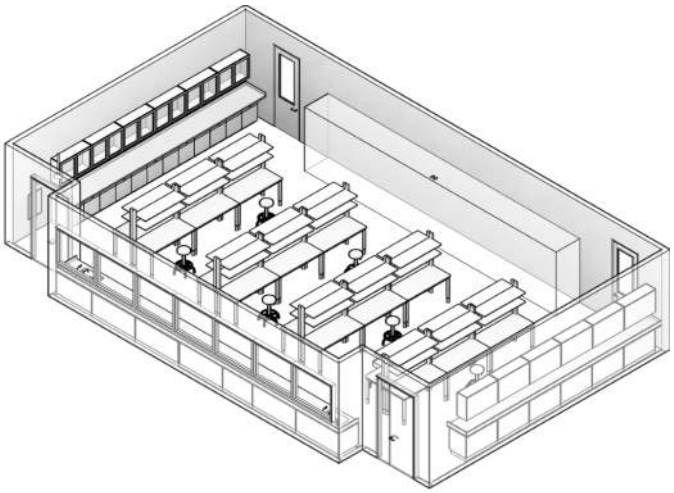
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 13.250.0003

Room Name	ENPH Wet Bench Research - Open Lab
Function Location:	13 - Public Health and Environmental Studies / 250 - Research Laboratory
Room Data Status	From RL_WATER-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	456.75	From Model Phase	New Construction
IFCID	08FLbL28D2ZPVIVJVyBzP8	Height:	0	Occupant	0
Revit Level	LEVEL 4	Perimeter:	89.5	Revit Model	UWEC-HOK-AR
		Feasibility NSF	500	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 13.250.0003

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

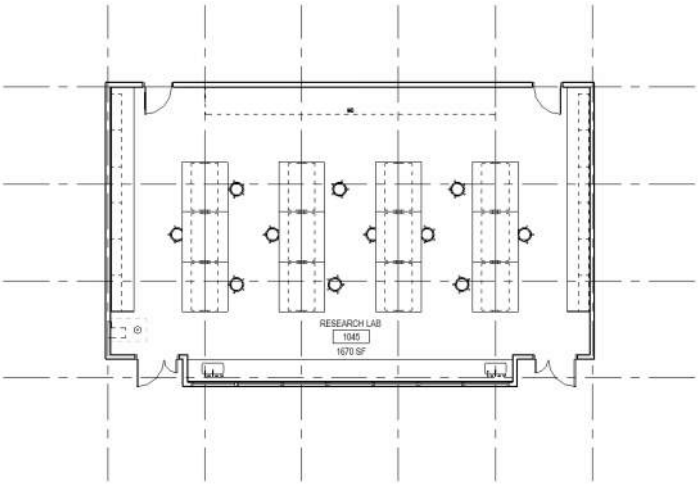
AUDIO VISUAL

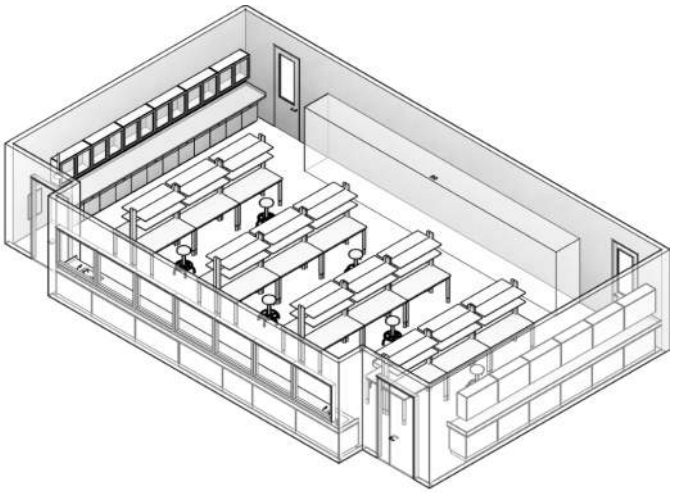
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 13.250.0004

Room Name	ENPH Wet Bench Research - Flex Room
Function Location:	13 - Public Health and Environmental Studies / 250 - Research Laboratory
Room Data Status	From RL_WATER-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	114.00	Borrowed Light	Control
User Room Number		Actual	0.00	From Model Phase	New Construction
IFCID	2n8vGMyaP8fwASZkHsKbJm	Height:	0	Occupant	4
Revit Level	LEVEL 3	Perimeter:	91	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-05
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☑
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☑
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☑
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☑ Rubber

FLOOR BASE
- Applied ☑
- Integral ☐
- Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
- Size: 3'-0" x 8'-0"
- Type: 1/2 Vision Panel
- Material: Wood

DOOR 2
- Size: 4'-6" x 8'-0"
- Type: 1/2 Vision Panel
- Material: Wood

DOOR 3
- Size:
- Type:
- Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 13.250.0004

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

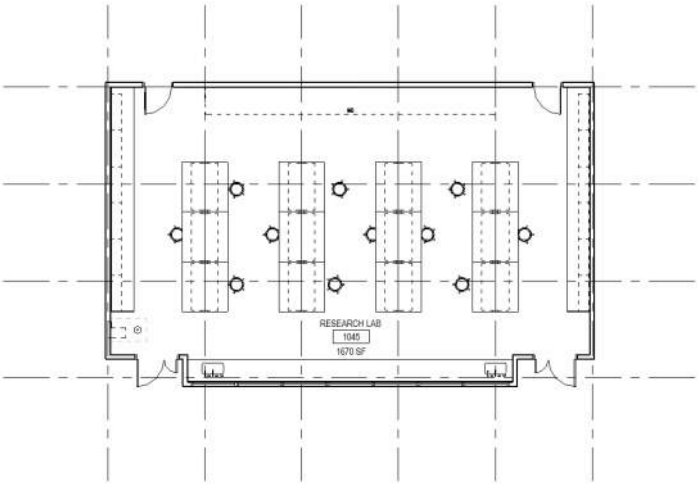
AUDIO VISUAL

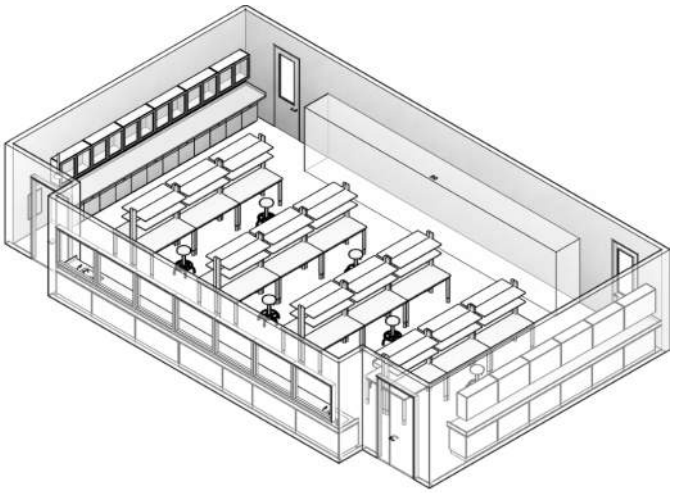
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 13.250.0005

Room Name	ENPH Wet Bench Research - Open Lab
Function Location:	13 - Public Health and Environmental Studies / 250 - Research Laboratory
Room Data Status	From RL_WATER-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	456.00	Borrowed Light	Control
User Room Number		Actual	113.75	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC84o	Height:	0	Occupant	4
Revit Level	LEVEL 4	Perimeter:	48	Revit Model	UWEC-HOK-AR
		Feasibility NSF	500	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☑	(Qty: 1) Size: 78x30x84
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 13.250.0005

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 13.250.0006

Room Name	Environmental Instrument Tower
Function Location:	13 - Public Health and Environmental Studies / 250 - Research Laboratory
Room Data Status	Unique
Last modified	Ivey, David, 2/5/2021 1:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Borrowed Light	Control
User Room Number		Actual	0.00	Occupant	0
		Height:	0	UWEC FICM Number	250 - Research Laboratory
		Perimeter:	0		

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☐
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☐
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☐
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☐
- Other: ☐

FLOOR BASE
- Applied ☐
- Integral ☐

Material:

CEILINGS
- Open ☐
- Acoustic Tile ☐
- Gyp. Board ☐
- Special Ceilings: ☐
- Other: ☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☐	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☐
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☐
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 13.250.0009

Room Name	ENPH Wet Bench Research - Flex Room
Function Location:	13 - Public Health and Environmental Studies / 250 - Research Laboratory
Room Data Status	From RL_WATER-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	114.00	Borrowed Light	Control
User Room Number		Actual	113.75	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC84_	Height:	0	Occupant	4
Revit Level	LEVEL 4	Perimeter:	48	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 13.250.0009

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

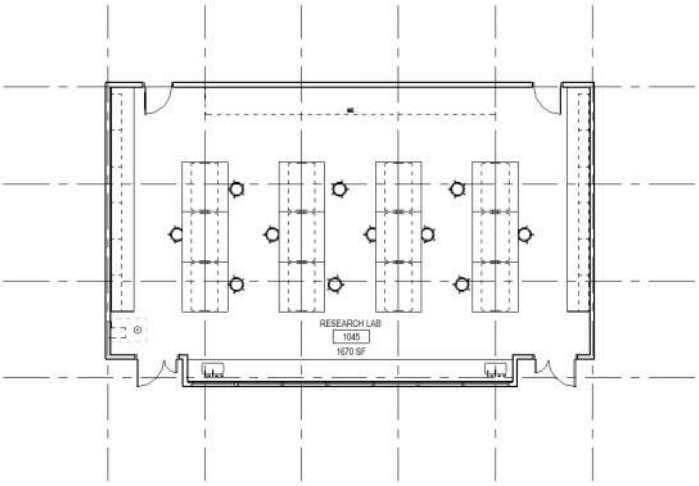
AUDIO VISUAL

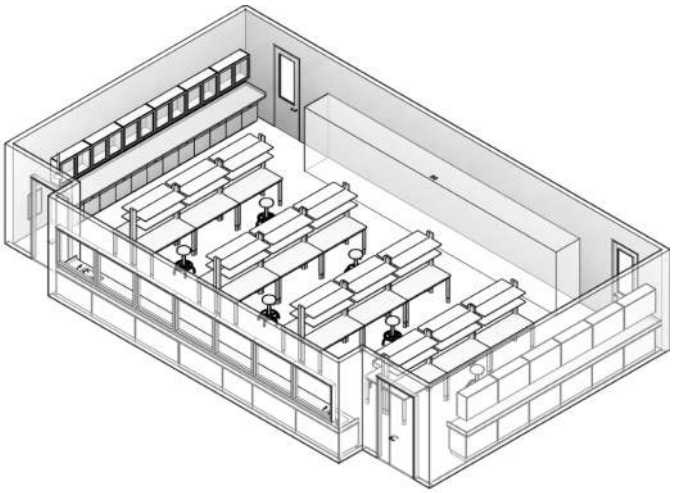
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 13.250.0010

Room Name	ENPH Wet Bench Research - Flex Room
Function Location:	13 - Public Health and Environmental Studies / 250 - Research Laboratory
Room Data Status	From RL_WATER-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	114.00	Borrowed Light	Control
User Room Number		Actual	113.75	From Model Phase	New Construction
IFCID	0QMyFAJLnCoQ7vn9EgC84w	Height:	0	Occupant	4
Revit Level	LEVEL 4	Perimeter:	48	Revit Model	UWEC-HOK-AR
				Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 5
Design Temp Heating:	72 F Range +/-: 5
Relative Humidity Heating:	25 % Range +/-: 2
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (4)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 13.250.0010

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☐
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

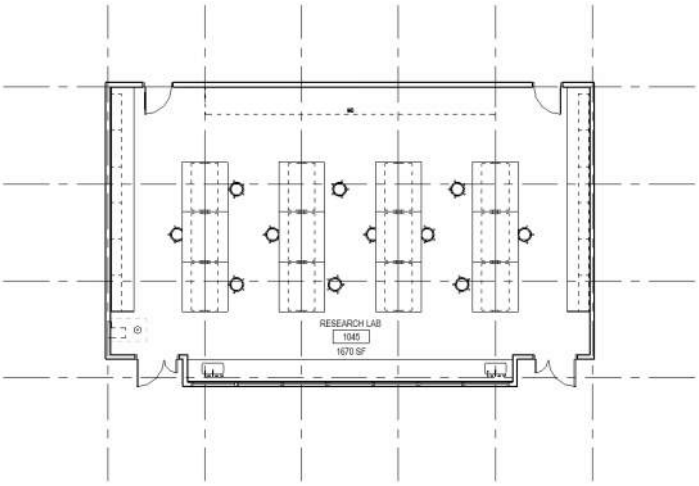
AUDIO VISUAL

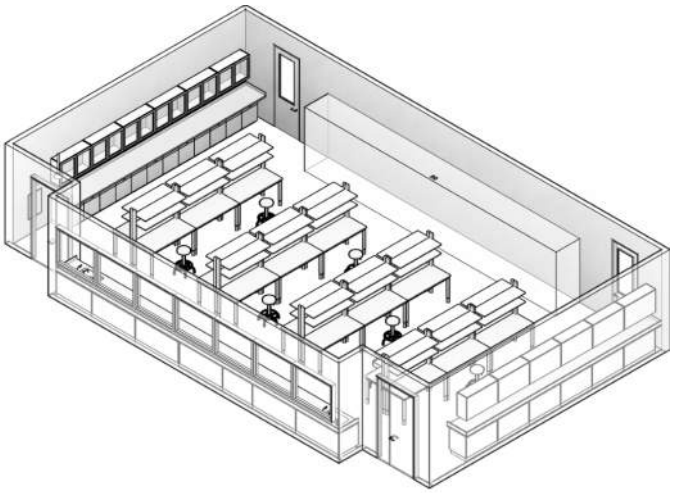
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Selection

Room Group Type: UWEC FICM Number

Group: 210 - Class Laboratory, 220 - Open Laboratory, 250 - Research Laboratory , 255 - Research Laboratory Service, 570 - Animal Facilities, 575 - Animal Facilities Services, 580 - Greenhouse, 585 - Greenhouse Service, 215 - Class Laboratory Service, 225 - Open Laboratory Service

Room function: 10: Physics and Astronomy

Room Function Number: 10.210.0001

Room Name	Electronics Teaching Lab
Function Location:	10 - Physics and Astronomy / 210 - Class Laboratory
Room Data Status	From TL_DRY ELEC-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization	
Room Number	
User Room Number	
Course Number(s)	350, 360, 361, 362, 363, 240
IFCID	3gieX4YNLB0hj56mCooqNH
Revit Level	LEVEL 5

Areas	
Programmed	1,290.00
Actual	1,356.36
Height:	0
Perimeter:	147.33
Feasibility NSF	1,200

Groups / Classifications / Status	
Borrowed Light	Control
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☑
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

some lockable cabinets for expensive intruments

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐

EXHAUST DEVICES

Point Exhaust:	☑ (Qty: 2)
Other:	☐

COMMENTS

point exhaust fume hoods (flexible snorkels) along countertop for soldering workstations

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

Room Function Number: 10.210.0001

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

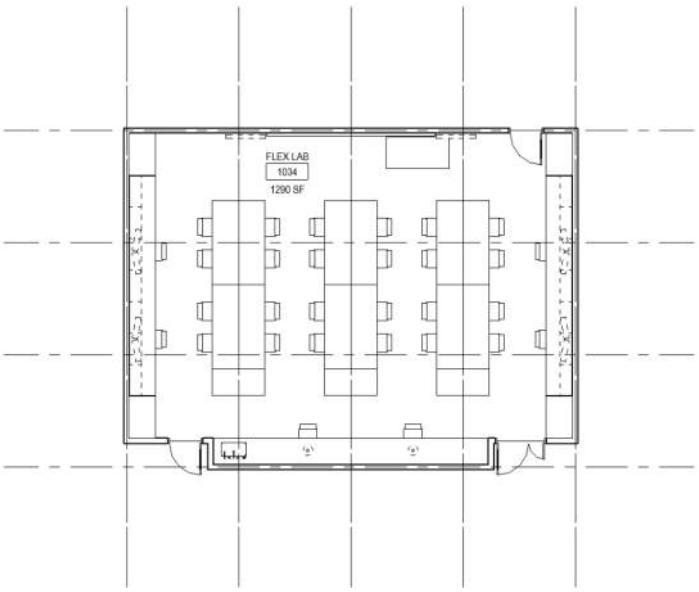
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

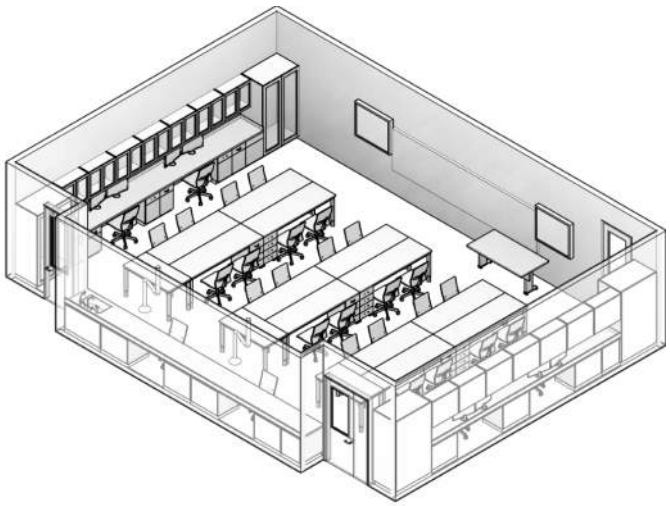
COMMENTS

card readers for students after hours

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 10.210.0002

Room Name	Physics I Teaching Lab
Function Location:	10 - Physics and Astronomy / 210 - Class Laboratory
Room Data Status	From TL_DRY ELEC-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	211, 231, 240
IFCID	3gieX4YNLB0hj56mCooqNS
Revit Level	LEVEL 5

Areas

Programmed	1,290.00
Actual	1,294.71
Height:	0
Perimeter:	147.33
Feasibility NSF	1,200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

table tops to accommodate tapered support rods

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 10.210.0002

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

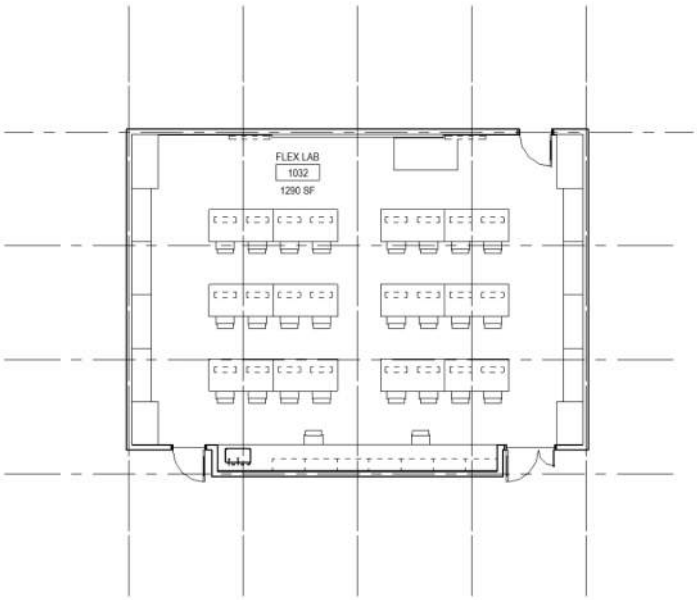
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

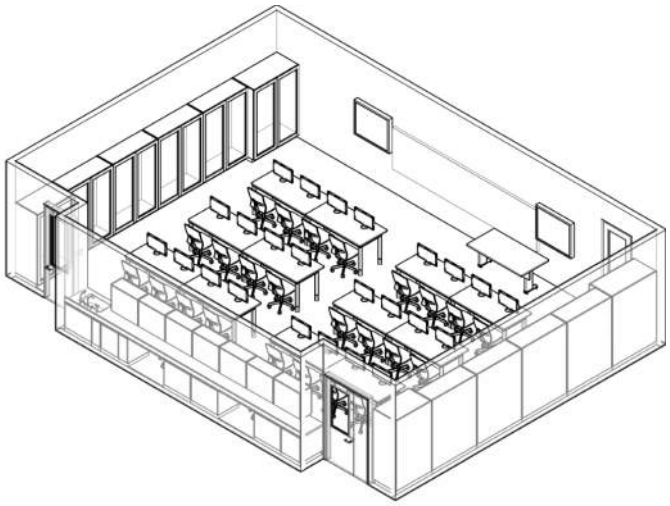
COMMENTS

card readers for student workers

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 10.210.0003

Room Name	Physicial Sciences Physics
Function Location:	10 - Physics and Astronomy / 210 - Class Laboratory
Room Data Status	From TL_DRY ELEC-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	100, 205
IFCID	3gieX4YNLB0hj56mCooqNV
Revit Level	LEVEL 5

Areas

Programmed	1,290.00
Actual	1,356.36
Height:	0
Perimeter:	147.33
Feasibility NSF	1,200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

COMMENTS

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	Standard
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	Standard
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

if doors have glass panel they must have light blocking shades

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

table tops to accommodate tapered support rods

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

light blocking shades must be provided

Room Function Number: 10.210.0003

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

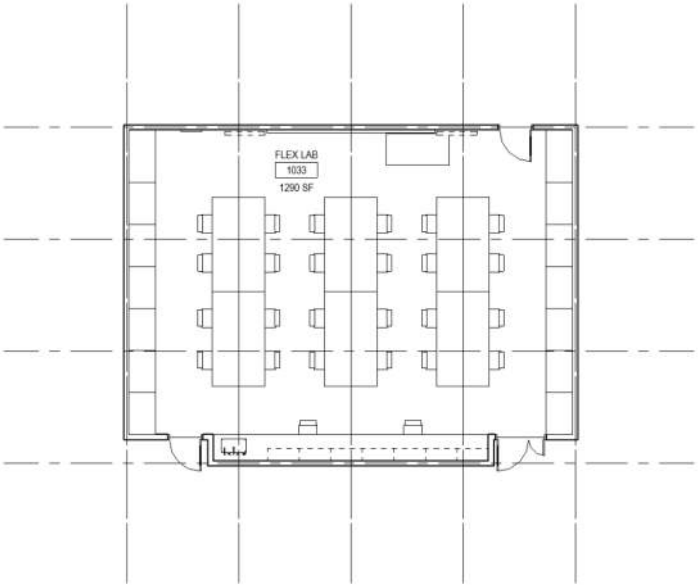
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

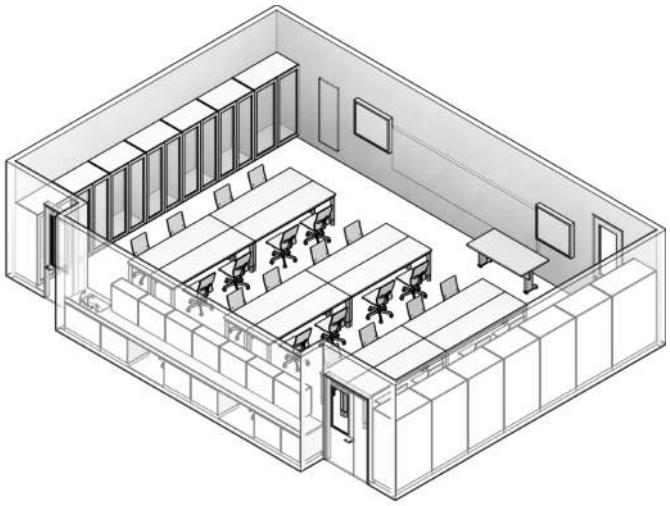
COMMENTS

card readers for student workers

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 10.210.0004

Room Name	Physics II - Electricity and Magnets
Function Location:	10 - Physics and Astronomy / 210 - Class Laboratory
Room Data Status	From TL_DRY ELEC-D
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	212, 232, 226 and 229
IFCID	3gieX4YNLB0hj56mCooqNQ
Revit Level	LEVEL 5

Areas

Programmed	1,290.00
Actual	1,356.36
Height:	0
Perimeter:	147.33
Feasibility NSF	1,200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	24
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-05
Space Type	Education-Teaching Lab
UWEC FICM Number	210 - Class Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

COMMENTS

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	Standard
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	Standard
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

if doors have glass they must have light blocking shades

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☐
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☑
Other:	☐

COMMENTS

table tops to be drillable to accommodate tapered support rods

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

light blocking shades must be provided

Room Function Number: 10.210.0004

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

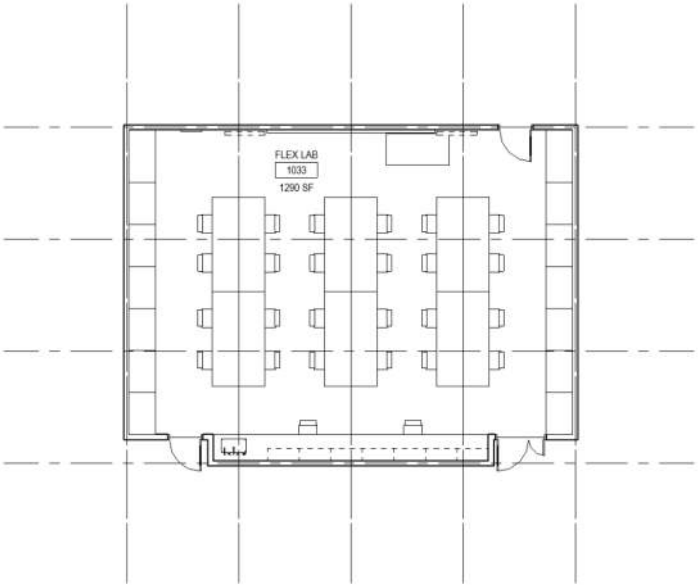
Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

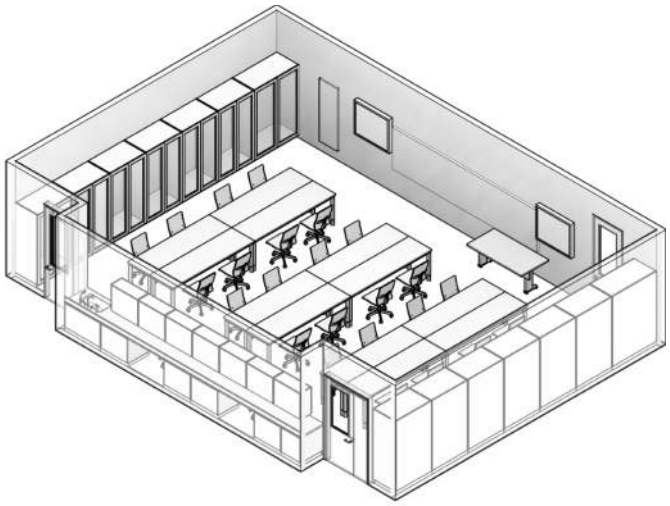
COMMENTS

card readers for student workers

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS





Room Function Number: 10.215.0001

Room Name	Physics Demo Room
Function Location:	10 - Physics and Astronomy / 215 - Class Laboratory Service
Room Data Status	From RL_SUP_WET-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqNb
Revit Level	LEVEL 5

Areas

Programmed	800.00
Actual	769.03
Height:	0
Perimeter:	123
Feasibility NSF	800

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Lab Support
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐	
Vacuum (VAC):	☐	
Carbon Diox. (CO2):	☐	
Compressed Air (CA):	☑	Wall
Chilled Water (CW S/R):	☐	
Nitrogen (N2):	☐	
Helium (He):	☐	
Argon (Ar):	☐	
Oxygen (O2):	☐	
Hydrogen (H):	☐	
Liq Nitrogen (LN2):	☐	
Special Gas 1 (SG1):	☐	
Special Gas 2 (SG2):	☐	
Other:	☐	

SINKS

Standard	☑	(1)
ADA	☐	
Scullery	☐	
Epoxy	☐	
Stainless Steel	☐	
Marine Edge	☐	

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

compressed air for tire and ball inflation
deionized water for demos and lab prep
there may be some chemical use and storage in this room - are an eye wash and safety shower required?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

light blocking shades must be provided

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

card access for convenience with frequent use

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 10.215.0002

Room Name	Storage Space
Function Location:	10 - Physics and Astronomy / 215 - Class Laboratory Service
Room Data Status	From RL_WET_SUP-B
Last modified	Niewoehner, Daniel, 4/22/2021 12:15 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqNW
Revit Level	LEVEL 5

Areas

Programmed	800.00
Actual	780.01
Height:	0
Perimeter:	121.83

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Lab Support
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 10.215.0002

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

there may be some chemical use and storage in this room - are an eye wash and safety shower required?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

card access for student workers

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 10.250.0001

Room Name	Electronics Research Lab
Function Location:	10 - Physics and Astronomy / 250 - Research Laboratory
Room Data Status	From RL_DRY-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqPQ
Revit Level	LEVEL 5

Areas

Programmed	500.00
Actual	481.25
Height:	0
Perimeter:	92
Feasibility NSF	500

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	2
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Dry Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐	
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☑	(Qty: 2)
Other:	☐	

COMMENTS

at least two point exhaust fume hoods (flexible snorkels) to reach over wide area for soldering work that could be at a bench or apparatus

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

3-phase power for greatest flexibility or ability to easily add if required in the future

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

card access for student researches

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 10.250.0002

Room Name	Electronics Research Lab
Function Location:	10 - Physics and Astronomy / 250 - Research Laboratory
Room Data Status	From RL_DRY-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	500.00	Borrowed Light	Control
User Room Number		Actual	514.86	From Model Phase	New Construction
IFCID	3gieX4YNLB0hj56mCooqPb	Height:	0	Occupant	2
Revit Level	LEVEL 5	Perimeter:	91.5	Revit Model	UWEC-HOK-AR
		Feasibility NSF	500	Revit Sync Date	2021-04-06
				Space Type	Research-Dry Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐	
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☑	(Qty: 2)
Other:	☐	

COMMENTS

at least two point exhaust fume hoods (flexible snorkels) to reach over wide area for soldering work that could be at a bench or apparatus

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

3-phase power for greatest flexibility or ability to easily add if required in the future

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

card access for student researches

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 10.250.0003

Room Name	Engineering Physics Capstone
Function Location:	10 - Physics and Astronomy / 250 - Research Laboratory
Room Data Status	From RL_PHY_WET
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	1,290.00	Borrowed Light	Control
User Room Number		Actual	1,360.88	From Model Phase	New Construction
IFCID	3gieX4YNLB0hj56mCooqNZ	Height:	0	Occupant	16
Revit Level	LEVEL 5	Perimeter:	149.17	Revit Model	UWEC-HOK-AR
		Feasibility NSF	1,200	Revit Sync Date	2021-04-26
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE
Applied	☑
Integral	☐
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2
Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
flooring must be suitable for project fabrication and assembly. Resistant to scratches from dragged materials, dust, metal shavings, water, and small amounts of standing water.

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☑
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☑
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

come solid wood bench tops might be better suited for mounting a vise, drill press, and using hand tools

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☑ (Qty: 1)
Other:	☐

COMMENTS

at least one point exhaust fume hood (flexible snorkel) to reach over wide area for soldering work that could be at a bench or an apparatus

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (1)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☑
Other:	☐

COMMENTS

compressed air for pneumatic projects

is a safety shower required?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

3-phase power for greatest flexibility or ability to easily add it required in future

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

card access for students

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 10.250.0019

Room Name	Optics Research
Function Location:	10 - Physics and Astronomy / 250 - Research Laboratory
Room Data Status	From RL-PHY_OPTICS
Last modified	Niewoehner, Daniel, 4/22/2021 12:13 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqNk
Revit Level	LEVEL 5

Areas

Programmed	1,290.00
Actual	1,342.31
Height:	0
Perimeter:	148
Feasibility NSF	1,200

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Ground Floor	Preferred
Occupant	16
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-26
Space Type	Research-Dry Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- 8 hours/day ☐
- 14 hours/day ☑
- 24 hours/day ☐
- Other: ☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- GWB, Paint ☐
- GWB, Epoxy Paint ☑
- CMU ☐
- Pre-Fab Modular ☐
- Other: ☐

WALL PROTECTION
- Corner Guards ☑
- Crash Rails ☐
- Other: ☐

FLOORING
- VCT ☐
- Sheet Vinyl ☐
- Electrostatic Dissipative ☐
- Epoxy ☐
- Carpet ☐
- Sealed Concrete ☐
- Commercial Rubber ☑
- Other: ☐

FLOOR BASE
- Applied ☑
- Integral ☐
- Material:

CEILINGS
- Open ☐
- Acoustic Tile ☑
- Gyp. Board ☐
- Special Ceilings: ☑ BLACK PAINTED
- Other: ☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	Standard
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	Standard
Material:	Wood

DOOR 3

Size:	
Type:	
Material:	

HAZARD / SHIELDING
Type:

COMMENTS
Room to have light seals at doors and block out shades at windows

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☑	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☑	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 48x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☐	
Other:	☐	

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 2
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	60+ for instrument isolation room
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑ Bench
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (2)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☑

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

one sink on teaching side, 1 sink on research side
deionized water for dark room
is safety shower and eye wash necessary?
compressed air for isolation optical table

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

some high-power equipment may require 240V 1-phase power

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboard on teaching side

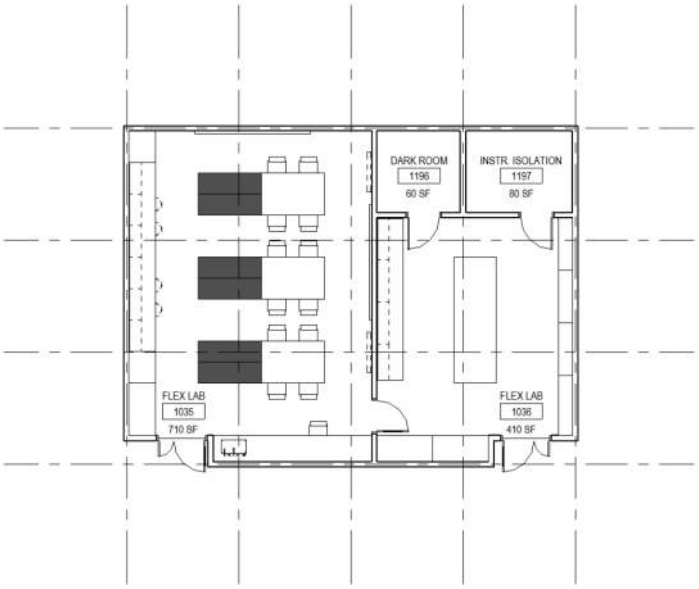
COMMENTS

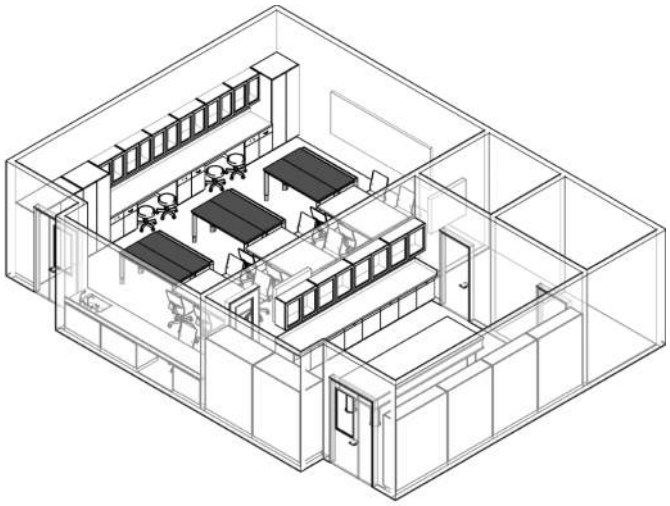
card access for student researchers

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Research side of the lab should have better than average sound transmission class. The existing lab has CMU walls with slab on grade floor. A single layer of drywall will probably not be adequate in the new building.
If we want to create an isolated instrument room within the optics lab for a laser lab or optical tweezers, we would need much greater sound transmission rating for that subspace.
By splitting the lab into teaching and research parts, the research portion becomes fairly small. Could we consider reapportioning some of the Electronics Research Lab (or Dry Bench Lab) into Optics?
Currently 1200 (700 teaching, 500 research) Optics & 1000 Electronics Research. Maybe consider 700 Optics Teaching, 750 Optics Research, 750 Electronics Research?





Room Function Number: 10.250.0035

Room Name	Physics Computational
Function Location:	10 - Physics and Astronomy / 250 - Research Laboratory
Room Data Status	From RL_COMP-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqHw
Revit Level	LEVEL 5

Areas

Programmed	200.00
Actual	213.11
Height:	0
Perimeter:	61.39
Feasibility NSF	200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	3
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-26
Space Type	Research-Specialty Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [ ] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [x] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 10.250.0035

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☑
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboard

COMMENTS

card access for student researchers
flat panel display for small group data visualization

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 10.250.0036

Room Name	Physics Computational
Function Location:	10 - Physics and Astronomy / 250 - Research Laboratory
Room Data Status	From RL_COMP-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqI5
Revit Level	LEVEL 5

Areas

Programmed	200.00
Actual	213.11
Height:	0
Perimeter:	61.17
Feasibility NSF	200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	4
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Specialty Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [x] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [ ] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [x] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [x] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☑
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboard

COMMENTS

card access for student researchers
flat panel display for small group data visualization

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 10.250.0037

Room Name	Physics Computational
Function Location:	10 - Physics and Astronomy / 250 - Research Laboratory
Room Data Status	From RL_COMP-C
Last modified	Niewoehner, Daniel, 4/22/2021 12:24 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqI0
Revit Level	LEVEL 5

Areas

Programmed	200.00
Actual	213.11
Height:	0
Perimeter:	61.17
Feasibility NSF	200

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	4
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Specialty Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

COMMENTS

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☑
GWB, Epoxy Paint	☐
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☐
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☑
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☑
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:

Type:

Material:

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☑
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☑	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☑	Wood	☑
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	4
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☑
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☑
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboard

COMMENTS

card access for student researchers
flat panel display for small group data visualization

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 10.250.0038

Room Name	Physics Dry Bench Research
Function Location:	10 - Physics and Astronomy / 250 - Research Laboratory
Room Data Status	From RL_PHY_DRY
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqPW
Revit Level	LEVEL 5

Areas

Programmed	500.00
Actual	545.56
Height:	0
Perimeter:	98.33
Feasibility NSF	500

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	4
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-26
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Flooring must be suitable for project fabrication assembly. Resistant to scratches from dragged materials, dust, metal shavings, water, and small amounts of standing water.

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☑
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

COMMENTS

some solid wood bench tops might be better suited for mounting a vise, drill press, and using hand tools.
Casework, bench, and shelving material must be placed away from wet areas or be compatible with use.

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☑	(Qty: 0)
Other:	☐	

COMMENTS

at least one point exhaust fume hood (flexible snorkel) to reach over wide area for soldering/torch work that could be at a bench or an apparatus.

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (2)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑ Location Fume Hood

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☑
Other:	☐

COMMENTS

is safety shower required?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

3-phase power for greatest flexibility. One existing vacuum system uses it.

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

card access for student researchers

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

This space could have several areas for different uses. 1-Rows of benches for dry bench projects. 2-A semi-wet bench area near the hood for some chemical use. 3-An open area for vacuum systems and other large apparatus. 4-An open area with a floor drain where water is accessible. 5-Heavy work benches, storage cabinets, and tool chests along the open areas.

Room Function Number: 10.250.0039

Room Name	Physics Dry Bench Research
Function Location:	10 - Physics and Astronomy / 250 - Research Laboratory
Room Data Status	From RL_PHY_DRY
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	500.00	Borrowed Light	Control
User Room Number		Actual	559.66	From Model Phase	New Construction
IFCID	3gieX4YNLB0hj56mCooqPZ	Height:	0	Occupant	4
Revit Level	LEVEL 5	Perimeter:	100	Revit Model	UWEC-HOK-AR
		Feasibility NSF	500	Revit Sync Date	2021-04-26
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
Flooring must be suitable for project fabrication assembly. Resistant to scratches from dragged materials, dust, metal shavings, water, and small amounts of standing water.

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☑
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

some solid wood bench tops might be better suited for mounting a vise, drill press, and using hand tools.
Casework, bench, and shelving material must be placed away from wet areas or be compatible with use.

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☑	(Qty: 0)
Other:	☐	

COMMENTS

at least one point exhaust fume hood (flexible snorkel) to reach over wide area for soldering/torch work that could be at a bench or an apparatus.

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (2)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑ Location Fume Hood

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☑
Other:	☐

COMMENTS

is safety shower required?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

3-phase power for greatest flexibility. One existing vacuum system uses it.

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

card access for student researchers

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

This space could have several areas for different uses. 1-Rows of benches for dry bench projects. 2-A semi-wet bench area near the hood for some chemical use. 3-An open area for vacuum systems and other large apparatus. 4-An open area with a floor drain where water is accessible. 5-Heavy work benches, storage cabinets, and tool chests along the open areas.

Room Function Number: 10.250.0040

Room Name	Physics Dry Bench Research
Function Location:	10 - Physics and Astronomy / 250 - Research Laboratory
Room Data Status	From RL_PHY_DRY
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	500.00	Borrowed Light	Control
User Room Number		Actual	513.31	From Model Phase	New Construction
IFCID	3gieX4YNLB0hj56mCooqPk	Height:	0	Occupant	4
Revit Level	LEVEL 5	Perimeter:	96.33	Revit Model	UWEC-HOK-AR
		Feasibility NSF	500	Revit Sync Date	2021-04-06
				Space Type	Research-Wet Lab
				UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [ ] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [x] Other: Rubber

FLOOR BASE
- [x] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 3'-0" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 2
Size: 4'-6" x 8'-0"
Type: 1/2 Vision Panel
Material: Wood

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
Flooring must be suitable for project fabrication assembly. Resistant to scratches from dragged materials, dust, metal shavings, water, and small amounts of standing water.

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☑
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

some solid wood bench tops might be better suited for mounting a vise, drill press, and using hand tools.
Casework, bench, and shelving material must be placed away from wet areas or be compatible with use.

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☑	(Qty: 0)
Other:	☐	

COMMENTS

at least one point exhaust fume hood (flexible snorkel) to reach over wide area for soldering/torch work that could be at a bench or an apparatus.

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (2)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑ Location Fume Hood

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☑
Other:	☐

COMMENTS

is safety shower required?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

3-phase power for greatest flexibility. One existing vacuum system uses it.

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

card access for student researchers

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

This space could have several areas for different uses. 1-Rows of benches for dry bench projects. 2-A semi-wet bench area near the hood for some chemical use. 3-An open area for vacuum systems and other large apparatus. 4-An open area with a floor drain where water is accessible. 5-Heavy work benches, storage cabinets, and tool chests along the open areas.

Room Function Number: 10.250.0041

Room Name	Physics Dry Bench Research
Function Location:	10 - Physics and Astronomy / 250 - Research Laboratory
Room Data Status	From RL_PHY_DRY
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	3gieX4YNLB0hj56mCooqPf
Revit Level	LEVEL 5

Areas

Programmed	500.00
Actual	515.58
Height:	0
Perimeter:	95.83
Feasibility NSF	500

Groups / Classifications / Status

Borrowed Light	Control
From Model Phase	New Construction
Occupant	4
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
Space Type	Research-Wet Lab
UWEC FICM Number	250 - Research Laboratory

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

8 hours/day	☐
14 hours/day	☑
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☐
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☑ Rubber

FLOOR BASE

Applied	☑
Integral	☐
Material:	

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1

Size:	3'-0" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 2

Size:	4'-6" x 8'-0"
Type:	1/2 Vision Panel
Material:	Wood

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Flooring must be suitable for project fabrication assembly. Resistant to scratches from dragged materials, dust, metal shavings, water, and small amounts of standing water.

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☑
Wall Shelves	☑
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☑
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

some solid wood bench tops might be better suited for mounting a vise, drill press, and using hand tools.
Casework, bench, and shelving material must be placed away from wet areas or be compatible with use.

CASEWORK MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☐
Wood	☑
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☑	(Qty: 1) Size: 72x36x84
Walk-in Fume Hoods:	☐	
Radioisotope Hoods:	☐	
Perchloric Hoods:	☐	
Bio Safety Cabs:	☐	
Vert Lam Flow Hoods:	☐	
Hori Lam Flow Hoods:	☐	
Polypropylene Hoods:	☐	
Canopy Hoods:	☐	
ADA Hoods:	☐	
Point Exhaust:	☑	(Qty: 0)
Other:	☐	

COMMENTS

at least one point exhaust fume hood (flexible snorkel) to reach over wide area for soldering/torch work that could be at a bench or an apparatus.

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	72 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	72 F Range +/-: 0
Relative Humidity Heating:	25 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	6
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☑
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (2)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☑
Drench Hose	☐
DI/RO Water (DI/RO):	☑ Location Fume Hood

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☑
Other:	☐

COMMENTS

is safety shower required?

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☑
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☑
208V, 30A, 3 Phase:	☑
Standby Power	☐
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☑
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

3-phase power for greatest flexibility. One existing vacuum system uses it.

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☑
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☑ Whiteboards

COMMENTS

card access for student researchers

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

This space could have several areas for different uses. 1-Rows of benches for dry bench projects. 2-A semi-wet bench area near the hood for some chemical use. 3-An open area for vacuum systems and other large apparatus. 4-An open area with a floor drain where water is accessible. 5-Heavy work benches, storage cabinets, and tool chests along the open areas.

Selection

Room Group Type: UWEC FICM Number

Group: 210 - Class Laboratory, 220 - Open Laboratory, 250 - Research Laboratory , 255 - Research Laboratory Service, 570 - Animal Facilities, 575 - Animal Facilities Services, 580 - Greenhouse, 585 - Greenhouse Service, 215 - Class Laboratory Service, 225 - Open Laboratory Service

Room function: 11: Psychology

Room Function Number: 11.210.0001

Room Name	Teaching Lab
Function Location:	11 - Psychology / 210 - Class Laboratory
Room Data Status	Unique
Last modified	Thelen, Jessica, 2/24/2021 3:29 PM

Categorization	Areas		Groups / Classifications / Status	
Room Number	Programmed	0.00	Borrowed Light	No Light
User Room Number	Actual	0.00	Occupant	0
	Height:	0	UWEC FICM Number	210 - Class Laboratory
	Perimeter:	0		

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

- [x] 8 hours/day
- [ ] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

sections of learning theory using animal subjects

ARCHITECTURAL

WALLS/PARTITIONS

- [ ] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION

- [ ] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING

- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE

- [ ] Applied
- [ ] Integral

Material:

CEILINGS

- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1

Size:

Type:

Material:

DOOR 2

Size:

Type:

Material:

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

email from Logorio critical

Room Function Number: 11.210.0001

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☐
Wall Shelves	☐
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

lab tables for animal cages

CASEWORK MATERIAL

Metal	☑
Wood	☐
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☑
Wood	☐
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

email from Lagorio

Room Function Number: 11.210.0001

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

in range for rodents

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☑
Flat Panel Display	☑
Camera	☑
Microphone	☑
Distance Learning	☑
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.215.0001

Room Name	Teaching Lab Storage Room
Function Location:	11 - Psychology / 215 - Class Laboratory Service
Room Data Status	Unique
Last modified	Thelen, Jessica, 2/24/2021 3:32 PM

Categorization

Room Number
User Room Number

Areas

Programmed	0.00
Actual	0.00
Height:	0
Perimeter:	0

Groups / Classifications / Status

Borrowed Light	No Light
Occupant	0
UWEC FICM Number	215 - Class Laboratory Service

USER DATA

ROOM DATA

Responsibility
Adjacency

UTILIZATION

- [ ] 8 hours/day
- [ ] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

- [ ] GWB, Paint
- [ ] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION

- [ ] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING

- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE

- [ ] Applied
- [ ] Integral

Material:

CEILINGS

- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1

Size:
Type:
Material:

DOOR 2

Size:
Type:
Material:

DOOR 3

Size:
Type:
Material:

HAZARD / SHIELDING

Type:

COMMENTS

email from Lagorio critical

Room Function Number: 11.215.0001

CASEWORK

CASEWORK TYPE

Fixed Casework	☐
Movable Casework	☑
Wall Cabinets	☐
Wall Shelves	☐
Lockable Cabinets	☐
Other:	☐

BENCHTOP MATERIAL

Epoxy	☑
Wood	☐
Stainless Steel	☐
Plastic Laminate	☐
Phenolic	☐
Other:	☐

COMMENTS

lab tables for animal cages

CASEWORK MATERIAL

Metal	☑
Wood	☐
Stainless Steel	☐
Other:	☐

SHELVING MATERIAL

Metal	☑
Wood	☐
Stainless Steel	☐
Glass	☐
Other:	☐

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

email from Lagorio

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

in range for rodents

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☑
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.250.0012

Room Name	Neurology Research Lab - Dry
Function Location:	11 - Psychology / 250 - Research Laboratory
Room Data Status	Unique
Last modified	Thelen, Jessica, 2/24/2021 4:07 PM

Categorization	Areas		Groups / Classifications / Status	
Room Number	Programmed	0.00	Space Type	Research-Dry Lab
User Room Number	Actual	0.00	UWEC FICM Number	250 - Research Laboratory
	Height:	0		
	Perimeter:	0		

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS
different teams work different hours

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☑
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE
Applied	☐
Integral	☐

Material:

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 11.250.0012

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☑	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

some rooms fixed with med associate operant boxes and control rooms, others will be flexible as equipment is moved in and out

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

in range for rodents
minimal sound as possible

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

floor drain in each room is critical for equipment and cleaning

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☑ see email from Lagorio and Jewett

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☑
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.250.0012

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.250.0013

Room Name	Neurology Research Lab - Wet
Function Location:	11 - Psychology / 250 - Research Laboratory
Room Data Status	Unique
Last modified	Thelen, Jessica, 2/24/2021 4:14 PM

Categorization	Areas		Groups / Classifications / Status	
Room Number	Programmed	0.00	Space Type	Research-Wet Lab
User Room Number	Actual	0.00	UWEC FICM Number	220 - Open Laboratory
	Height:	0		
	Perimeter:	0		

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [x] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS
equipment always set up but unlikely used during the night time

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 11.250.0013

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☑	Metal	☑
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

needs access to basic fume hood

EQUIPMENT

Item 1	☑	Western blot materials (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 2	☑	Dark Room (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	Notes: new	
Item 3	☑	Biochem Assoy (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 4	☑	Elisa (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐		
Item 5	☐					
Item 6	☐					
Item 7	☐					
Item 8	☐					
Item 9	☐					
Item 10	☐					

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☑ (0)
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☑
Eye Wash	☑
Drench Hose	☑
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☐
Power at Table	☑
Data	☑
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

standby power for -80 degree Celsius freezer

Room Function Number: 11.250.0013

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.250.0014

Room Name	Neurology Research Lab - Wet
Function Location:	11 - Psychology / 250 - Research Laboratory
Room Data Status	Unique
Last modified	Thelen, Jessica, 2/24/2021 4:17 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	0.00	Space Type	Research-Wet Lab
User Room Number		Actual	0.00	UWEC FICM Number	250 - Research Laboratory
		Height:	0		
		Perimeter:	0		

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [ ] 14 hours/day
- [x] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS
electrical shielding would be great

Room Function Number: 11.250.0014

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☑
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☐
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☑	Metal	☑
Wood	☐	Wood	☐
Stainless Steel	☐	Stainless Steel	☐
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☑	Surgery (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 2	☑	Electrophys (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐	
Item 3	☐				
Item 4	☐				
Item 5	☐				
Item 6	☐				
Item 7	☐				
Item 8	☐				
Item 9	☐				
Item 10	☐				

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	0 F Range +/-: 0
Relative Humidity Cooling:	0 % Range +/-: 0
Design Temp Heating:	0 F Range +/-: 0
Relative Humidity Heating:	0 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	0
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

electrical shielding

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☐
Cold Water (CW)	☐
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☐
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.250.0014

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.570.0008

Room Name	Vivarium - Holding Room
Function Location:	11 - Psychology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	3bVYY0S1v0JhiQgvwMH7xx
Revit Level	LEVEL 4

Areas

Programmed	228.00
Actual	168.67
Height:	0
Perimeter:	52.67
Feasibility NSF	300

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	3
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
UWEC FICM Number	570 - Animal Facilities
Vivarium	All Spaces

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [ ] 14 hours/day
- [x] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [ ] GWB, Epoxy Paint
- [x] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [x] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [x] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 4'-6" x 8'-0"
Type: Standard
Material: Metal

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 11.570.0008

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☑ Ventilated Cages (Qty: 0)

COMMENTS

EQUIPMENT

Item 1	☑ Ventilated Cage (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐		
Item 3	☐		
Item 4	☐		
Item 5	☐		
Item 6	☐		
Item 7	☐		
Item 8	☐		
Item 9	☐		
Item 10	☐		

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (1)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☑
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☑
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.570.0008

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.570.0015

Room Name	Vivarium - Small Holding
Function Location:	11 - Psychology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	3koR1zR_H6fPWxO7rC9mRU
Revit Level	LEVEL 4

Areas

Programmed	114.00
Actual	113.85
Height:	0
Perimeter:	42.8
Feasibility NSF	100

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
UWEC FICM Number	570 - Animal Facilities
Vivarium	All Spaces

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [ ] 14 hours/day
- [x] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [ ] GWB, Epoxy Paint
- [x] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [x] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [x] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 4'-6" x 8'-0"
Type: Standard
Material: Metal

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 11.570.0015

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☑ Ventilated Cages (Qty: 0)

COMMENTS

EQUIPMENT

Item 1	☑ Ventilated Cage (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐		
Item 3	☐		
Item 4	☐		
Item 5	☐		
Item 6	☐		
Item 7	☐		
Item 8	☐		
Item 9	☐		
Item 10	☐		

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (1)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☑
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☑
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.570.0015

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.570.0017

Room Name	Vivarium - Necropsy
Function Location:	11 - Psychology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-PROC-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:32 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	410
IFCID	3bVYY0S1v0JhiQgvwMH7x$
Revit Level	LEVEL 4

Areas

Programmed	114.00
Actual	114.19
Height:	0
Perimeter:	42.75
Feasibility NSF	120

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
UWEC FICM Number	570 - Animal Facilities
Vivarium	All Spaces

USER DATA

ROOM DATA

Responsibility

Adjacency

UTILIZATION

- [x] 8 hours/day
- [ ] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION

- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING

- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE

- [ ] Applied
- [ ] Integral

Material:

CEILINGS

- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1

Size:

Type:

Material:

DOOR 2

Size:

Type:

Material:

DOOR 3

Size:

Type:

Material:

HAZARD / SHIELDING

Type:

COMMENTS

Room Function Number: 11.570.0017

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☑ Wall
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

needs big sink
CO2 tank secured to wall

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☑
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.570.0017

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.570.0018

Room Name	Vivarium - Small Procedure Surgery/Perfusion
Function Location:	11 - Psychology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-PROC-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:13 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	410
IFCID	3koR1zR_H6fPWxO7rC9mRF
Revit Level	LEVEL 4

Areas

Programmed	114.00
Actual	114.19
Height:	0
Perimeter:	42.75
Feasibility NSF	120

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
UWEC FICM Number	570 - Animal Facilities
Vivarium	All Spaces

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [x] 8 hours/day
- [ ] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 11.570.0018

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO_2):	☑ Wall
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N_2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O_2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN_2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

needs big sink

CO_2 tank secured to wall

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☑
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.570.0018

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Name	Vivarium - Procedure
Function Location:	11 - Psychology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-PROC-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:13 PM

Categorization	Areas		Groups / Classifications / Status	
Room Number	Programmed	0.00	Borrowed Light	No Light
User Room Number	Actual	0.00	Occupant	1
	Height:	0	UWEC FICM Number	570 - Animal Facilities
	Perimeter:	0	Vivarium	All Spaces
	Feasibility NSF	1,900		

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION

8 hours/day	☑
14 hours/day	☐
24 hours/day	☐
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS

GWB, Paint	☐
GWB, Epoxy Paint	☑
CMU	☐
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION

Corner Guards	☑
Crash Rails	☐
Other:	☐

FLOORING

VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☑
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE

Applied	☐
Integral	☐

Material:

CEILINGS

Open	☐
Acoustic Tile	☐
Gyp. Board	☐
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 11.570.0019

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☑ Wall
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

needs big sink

CO2 tank secured to wall

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☑
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.570.0019

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.570.0057

Room Name	Vivarium - Small Holding
Function Location:	11 - Psychology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	3koR1zR_H6fPWxO7rC9mRR
Revit Level	LEVEL 4

Areas

Programmed	114.00
Actual	113.85
Height:	0
Perimeter:	42.8
Feasibility NSF	100

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
UWEC FICM Number	570 - Animal Facilities
Vivarium	All Spaces

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [ ] 14 hours/day
- [x] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [ ] GWB, Epoxy Paint
- [x] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [x] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [x] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 4'-6" x 8'-0"
Type: Standard
Material: Metal

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 11.570.0057

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☑ Ventilated Cages (Qty: 0)

COMMENTS

EQUIPMENT

Item 1	☑ Ventilated Cage (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐		
Item 3	☐		
Item 4	☐		
Item 5	☐		
Item 6	☐		
Item 7	☐		
Item 8	☐		
Item 9	☐		
Item 10	☐		

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (1)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☑
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☑
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.570.0057

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.570.0058

Room Name	Vivarium - Large Procedure
Function Location:	11 - Psychology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-PROC-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:13 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	410
IFCID	3bVYY0S1v0JhiQgvwMH7xN
Revit Level	LEVEL 4

Areas

Programmed	280.00
Actual	278.12
Height:	0
Perimeter:	69.5

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
UWEC FICM Number	570 - Animal Facilities
Vivarium	All Spaces

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [x] 8 hours/day
- [ ] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 11.570.0058

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☑ Wall
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

needs big sink
CO2 tank secured to wall

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☑
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.570.0058

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.570.0059

Room Name	Vivarium - Medium Procedure Operant Setup
Function Location:	11 - Psychology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-PROC-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:13 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	410
IFCID	3bVYY0S1v0JhiQgvwMH7x7
Revit Level	LEVEL 4

Areas

Programmed	171.00
Actual	178.00
Height:	0
Perimeter:	60.5

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
UWEC FICM Number	570 - Animal Facilities
Vivarium	All Spaces

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [x] 8 hours/day
- [ ] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 11.570.0059

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☑ Wall
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

needs big sink
CO2 tank secured to wall

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☑
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.570.0060

Room Name	Vivarium - Medium Procedure Morris Maze
Function Location:	11 - Psychology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-PROC-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:13 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	410
IFCID	3bVYY0S1v0JhiQgvwMH7xB
Revit Level	LEVEL 4

Areas

Programmed	171.00
Actual	172.12
Height:	0
Perimeter:	57.5

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
UWEC FICM Number	570 - Animal Facilities
Vivarium	All Spaces

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [x] 8 hours/day
- [ ] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 11.570.0060

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO_2):	☑ Wall
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N_2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O_2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN_2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

needs big sink

CO_2 tank secured to wall

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☑
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.570.0060

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.570.0061

Room Name	Vivarium - Medium Procedure Other Maze
Function Location:	11 - Psychology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-PROC-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:13 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	410
IFCID	3bVYY0S1v0JhiQgvwMH7xF
Revit Level	LEVEL 4

Areas

Programmed	171.00
Actual	172.12
Height:	0
Perimeter:	57.5

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
UWEC FICM Number	570 - Animal Facilities
Vivarium	All Spaces

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [x] 8 hours/day
- [ ] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO_2):	☑ Wall
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N_2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O_2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN_2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

needs big sink

CO_2 tank secured to wall

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☑
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.570.0061

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.570.0062

Room Name	Vivarium - Medium Procedure Other Maze
Function Location:	11 - Psychology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-PROC-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:13 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	410
IFCID	3bVYY0S1v0JhiQgvwMH7xJ
Revit Level	LEVEL 4

Areas

Programmed	171.00
Actual	176.33
Height:	0
Perimeter:	53.67

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
UWEC FICM Number	570 - Animal Facilities
Vivarium	All Spaces

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [x] 8 hours/day
- [ ] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 11.570.0062

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☑ Wall
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

needs big sink

CO2 tank secured to wall

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☑
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.570.0062

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.570.0063

Room Name	Vivarium - Small Procedure Electrophysiology
Function Location:	11 - Psychology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-PROC-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:13 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	410
IFCID	3koR1zR_H6fPWxO7rC9mR8
Revit Level	LEVEL 4

Areas

Programmed	114.00
Actual	114.19
Height:	0
Perimeter:	42.75

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
UWEC FICM Number	570 - Animal Facilities
Vivarium	All Spaces

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [x] 8 hours/day
- [ ] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 11.570.0063

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☑ Wall
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

needs big sink
CO2 tank secured to wall

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☑
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.570.0063

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.570.0064

Room Name	Vivarium - Small Procedure Feeding
Function Location:	11 - Psychology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-PROC-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:13 PM

Categorization

Room Number	
User Room Number	
Course Number(s)	410
IFCID	3koR1zR_H6fPWxO7rC9mQr
Revit Level	LEVEL 4

Areas

Programmed	114.00
Actual	114.19
Height:	0
Perimeter:	42.75

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
UWEC FICM Number	570 - Animal Facilities
Vivarium	All Spaces

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [x] 8 hours/day
- [ ] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 11.570.0064

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☑ Wall
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

needs big sink
CO2 tank secured to wall

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☑
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.570.0064

SECURITY / AV

SECURITY

- Key Lock ☐
- Card Access ☑
- Video Surveillance ☐
- Emergency Shutoff ☐
- Equipment Theft Alarm ☐
- Glass Break Sensor ☐
- Alarmed Door ☐
- Motion Detector ☐
- Motion Sensors ☐
- Close Circuit Telev. ☐
- Other: ☐

COMMUNITCATIONS

AUDIO VISUAL

- Projection ☐
- Flat Panel Display ☐
- Camera ☐
- Microphone ☐
- Distance Learning ☐
- Other: ☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.570.0065

Room Name	Vivarium - Equipment Storage
Function Location:	11 - Psychology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-PROC-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:13 PM

Categorization

Room Number	
User Room Number	
IFCID	3bVYY0S1v0JhiQgvwMH7x3
Revit Level	LEVEL 4

Areas

Programmed	114.00
Actual	119.79
Height:	0
Perimeter:	46.67

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	1
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
UWEC FICM Number	570 - Animal Facilities
Vivarium	All Spaces

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [x] 8 hours/day
- [ ] 14 hours/day
- [ ] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [x] GWB, Epoxy Paint
- [ ] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [ ] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [ ] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [ ] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size:
Type:
Material:

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 11.570.0065

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☐

COMMENTS

EQUIPMENT

Item 1	☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☐
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☑ Wall
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☐
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

needs big sink
CO2 tank secured to wall

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☐
UPS	☐
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☑
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.570.0065

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.570.0066

Room Name	Vivarium - Isolation Cubicles
Function Location:	11 - Psychology / 570 - Animal Facilities
Room Data Status	From RL_VIVARIUM-A
Last modified	Niewoehner, Daniel, 4/22/2021 12:14 PM

Categorization

Room Number	
User Room Number	
IFCID	3koR1zR_H6fPWxO7rC9mQv
Revit Level	LEVEL 4

Areas

Programmed	280.00
Actual	278.44
Height:	0
Perimeter:	68

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	3
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
UWEC FICM Number	570 - Animal Facilities
Vivarium	All Spaces

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [ ] 14 hours/day
- [x] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [ ] GWB, Epoxy Paint
- [x] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [x] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [x] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 4'-6" x 8'-0"
Type: Standard
Material: Metal

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 11.570.0066

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☑ Ventilated Cages (Qty: 0)

COMMENTS

EQUIPMENT

Item 1	☑ Ventilated Cage (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐		
Item 3	☐		
Item 4	☐		
Item 5	☐		
Item 6	☐		
Item 7	☐		
Item 8	☐		
Item 9	☐		
Item 10	☐		

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (1)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☐
Eye Wash (EW)	☐
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☑
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☐
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☑
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.570.0066

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.575.0001

Room Name	Vivarium - Bedding/ Cage Storage
Function Location:	11 - Psychology / 575 - Animal Facilities Services
Room Data Status	From RL_Vivarium-Support
Last modified	Niewoehner, Daniel, 4/22/2021 12:32 PM

Categorization		Areas		Groups / Classifications / Status	
Room Number		Programmed	114.00	Borrowed Light	No Light
User Room Number		Actual	111.92	From Model Phase	New Construction
IFCID	3koR1zR_H6fPWxO7rC9mQy	Height:	0	Occupant	0
Revit Level	LEVEL 4	Perimeter:	42.42	Revit Model	UWEC-HOK-AR
		Feasibility NSF	150	Revit Sync Date	2021-04-06
				UWEC FICM Number	575 - Animal Facilities Services
				Vivarium	All Spaces

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
8 hours/day	☐
14 hours/day	☐
24 hours/day	☑
Other:	☐

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
GWB, Paint	☐
GWB, Epoxy Paint	☐
CMU	☑
Pre-Fab Modular	☐
Other:	☐

WALL PROTECTION
Corner Guards	☑
Crash Rails	☑
Other:	☐

FLOORING
VCT	☐
Sheet Vinyl	☐
Electrostatic Dissipative	☐
Epoxy	☑
Carpet	☐
Sealed Concrete	☐
Commercial Rubber	☐
Other:	☐

FLOOR BASE
Applied	☐
Integral	☑
Material:	

CEILINGS
Open	☐
Acoustic Tile	☐
Gyp. Board	☑
Special Ceilings:	☐
Other:	☐

DOOR 1
Size:	4'-6" x 8'-0"
Type:	Standard
Material:	Metal

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 11.575.0001

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☑ Ventilated Cages (Qty: 0)

COMMENTS

EQUIPMENT

Item 1	☑ Cage Washer (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (1)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☑
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☑
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.575.0001

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.575.0002

Room Name	Vivarium - Cage Wash
Function Location:	11 - Psychology / 575 - Animal Facilities Services
Room Data Status	From RL_Vivarium-Support
Last modified	Niewoehner, Daniel, 4/22/2021 12:32 PM

Categorization

Room Number	
User Room Number	
IFCID	3koR1zR_H6fPWxO7rC9mQp
Revit Level	LEVEL 4

Areas

Programmed	228.00
Actual	111.92
Height:	0
Perimeter:	42.42
Feasibility NSF	100

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
UWEC FICM Number	575 - Animal Facilities Services
Vivarium	All Spaces

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [ ] 14 hours/day
- [x] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [ ] GWB, Epoxy Paint
- [x] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [x] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [x] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 4'-6" x 8'-0"
Type: Standard
Material: Metal

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 11.575.0002

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☑ Ventilated Cages (Qty: 0)

COMMENTS

EQUIPMENT

Item 1	☑ Cage Washer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐		
Item 3	☐		
Item 4	☐		
Item 5	☐		
Item 6	☐		
Item 7	☐		
Item 8	☐		
Item 9	☐		
Item 10	☐		

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:

Noise Criteria:

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (1)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☑
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☑
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.575.0002

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.575.0004

Room Name	Vivarium - Entrance
Function Location:	11 - Psychology / 575 - Animal Facilities Services
Room Data Status	From RL_Vivarium-Support
Last modified	Niewoehner, Daniel, 4/22/2021 12:32 PM

Categorization

Room Number	
User Room Number	
IFCID	3koR1zR_H6fPWxO7rC9mR2
Revit Level	LEVEL 4

Areas

Programmed	114.00
Actual	113.85
Height:	0
Perimeter:	42.8
Feasibility NSF	100

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
UWEC FICM Number	575 - Animal Facilities Services
Vivarium	All Spaces

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [ ] 14 hours/day
- [x] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [ ] GWB, Epoxy Paint
- [x] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [x] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [x] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 4'-6" x 8'-0"
Type: Standard
Material: Metal

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 11.575.0004

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☑ Ventilated Cages (Qty: 0)

COMMENTS

EQUIPMENT

Item 1	☑ Cage Washer (Qty: 0) Vib. Sens. ☐ Vib. Cause ☐
Item 2	☐
Item 3	☐
Item 4	☐
Item 5	☐
Item 6	☐
Item 7	☐
Item 8	☐
Item 9	☐
Item 10	☐

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (1)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☑
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☑
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.575.0004

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Room Function Number: 11.575.0010

Room Name	Vivarium - Waste
Function Location:	11 - Psychology / 575 - Animal Facilities Services
Room Data Status	From RL_Vivarium-Support
Last modified	Niewoehner, Daniel, 4/22/2021 12:32 PM

Categorization

Room Number	
User Room Number	
IFCID	3koR1zR_H6fPWxO7rC9mR1
Revit Level	LEVEL 4

Areas

Programmed	114.00
Actual	113.85
Height:	0
Perimeter:	42.8
Feasibility NSF	100

Groups / Classifications / Status

Borrowed Light	No Light
From Model Phase	New Construction
Occupant	0
Revit Model	UWEC-HOK-AR
Revit Sync Date	2021-04-06
UWEC FICM Number	575 - Animal Facilities Services
Vivarium	All Spaces

USER DATA

ROOM DATA
Responsibility
Adjacency

UTILIZATION
- [ ] 8 hours/day
- [ ] 14 hours/day
- [x] 24 hours/day
- [ ] Other:

COMMENTS

ARCHITECTURAL

WALLS/PARTITIONS
- [ ] GWB, Paint
- [ ] GWB, Epoxy Paint
- [x] CMU
- [ ] Pre-Fab Modular
- [ ] Other:

WALL PROTECTION
- [x] Corner Guards
- [x] Crash Rails
- [ ] Other:

FLOORING
- [ ] VCT
- [ ] Sheet Vinyl
- [ ] Electrostatic Dissipative
- [x] Epoxy
- [ ] Carpet
- [ ] Sealed Concrete
- [ ] Commercial Rubber
- [ ] Other:

FLOOR BASE
- [ ] Applied
- [x] Integral

Material:

CEILINGS
- [ ] Open
- [ ] Acoustic Tile
- [x] Gyp. Board
- [ ] Special Ceilings:
- [ ] Other:

DOOR 1
Size: 4'-6" x 8'-0"
Type: Standard
Material: Metal

DOOR 2
Size:
Type:
Material:

DOOR 3
Size:
Type:
Material:

HAZARD / SHIELDING
Type:

COMMENTS

Room Function Number: 11.575.0010

CASEWORK

CASEWORK TYPE		BENCHTOP MATERIAL	
Fixed Casework	☐	Epoxy	☐
Movable Casework	☑	Wood	☐
Wall Cabinets	☐	Stainless Steel	☑
Wall Shelves	☐	Plastic Laminate	☐
Lockable Cabinets	☐	Phenolic	☐
Other:	☐	Other:	☐

CASEWORK MATERIAL		SHELVING MATERIAL	
Metal	☐	Metal	☐
Wood	☐	Wood	☐
Stainless Steel	☑	Stainless Steel	☑
Other:	☐	Glass	☐
		Other:	☐

COMMENTS

EXHAUST DEVICES

Benchtop Fume Hoods:	☐
Walk-in Fume Hoods:	☐
Radioisotope Hoods:	☐
Perchloric Hoods:	☐
Bio Safety Cabs:	☐
Vert Lam Flow Hoods:	☐
Hori Lam Flow Hoods:	☐
Polypropylene Hoods:	☐
Canopy Hoods:	☐
ADA Hoods:	☐
Point Exhaust:	☐
Other:	☑ Ventilated Cages (Qty: 0)

COMMENTS

EQUIPMENT

Item 1	☑ Cage Washer (Qty: 0)	Vib. Sens. ☐	Vib. Cause ☐
Item 2	☐		
Item 3	☐		
Item 4	☐		
Item 5	☐		
Item 6	☐		
Item 7	☐		
Item 8	☐		
Item 9	☐		
Item 10	☐		

COMMENTS

HVAC

ENVIRONMENT

Design Temp Cooling:	79 F Range +/-: 0
Relative Humidity Cooling:	50 % Range +/-: 0
Design Temp Heating:	64 F Range +/-: 0
Relative Humidity Heating:	30 % Range +/-: 0
Supply Air Filtration	
Air Change Rate (ac/hr):	15
Room Pressure Indicator	☐
Pressure Monitor	☐
Laminar Flow Distribution	☐
Exhaust Air Filtration	
Exhaust Air: 100% Exhausted	☑
Exhaust Air: Recirculated Air per ASHRAE 62.1	☐
Low Wall Exhaust	☐

ACOUSTIC

Sound Transmision Class:	
Noise Criteria:	

SPECIAL REQUIREMENTS

Oxgen/gas Detection:	☐
Other:	☐

COMMENTS

PLUMBING

ROOM SERVICES + LOCATION

Natural Gas (GAS):	☐
Vacuum (VAC):	☐
Carbon Diox. (CO2):	☐
Compressed Air (CA):	☐
Chilled Water (CW S/R):	☐
Nitrogen (N2):	☐
Helium (He):	☐
Argon (Ar):	☐
Oxygen (O2):	☐
Hydrogen (H):	☐
Liq Nitrogen (LN2):	☐
Special Gas 1 (SG1):	☐
Special Gas 2 (SG2):	☐
Other:	☐

SINKS

Standard	☐
ADA	☐
Scullery	☐
Epoxy	☐
Stainless Steel	☑ (1)
Marine Edge	☐

SERVICES AT SINKS

Hot Water (HW)	☑
Cold Water (CW)	☑
High Purity Water	☐
Eye Wash	☐
Drench Hose	☐
DI/RO Water (DI/RO):	☐

OTHER

Floor Drain (FD)	☑
Floor Sink (FS)	☐
Trench Drain (TD)	☐
Safety Shower (SS)	☑
Eye Wash (EW)	☑
Other:	☐

COMMENTS

ELECTRICAL / LIGHTING

ELECTRICAL

Raceway	☐
110V, 20A, 1 Phase:	☑
208V, 30A, 1 Phase	☐
208V, 30A, 3 Phase:	☐
Standby Power	☑
UPS	☑
Power at Table	☐
Data	☐
Phone	☐
Other:	☐

LIGHTING

80-100 fc @ wrk srfc	☑
30-60 fc @ wrk srfc	☐
Other fc @ wrk srfc:	☐
Task Lighting	☐
Dimmable Lighting	☐
Zoned Lighting	☐
Prefer Natural Light	☐
Other:	☐

COMMENTS

Room Function Number: 11.575.0010

SECURITY / AV

SECURITY

Key Lock	☐
Card Access	☑
Video Surveillance	☐
Emergency Shutoff	☐
Equipment Theft Alarm	☐
Glass Break Sensor	☐
Alarmed Door	☐
Motion Detector	☐
Motion Sensors	☐
Close Circuit Telev.	☐
Other:	☐

COMMUNITCATIONS

AUDIO VISUAL

Projection	☐
Flat Panel Display	☐
Camera	☐
Microphone	☐
Distance Learning	☐
Other:	☐

COMMENTS

GENERAL ROOM REMARKS

GENERAL ROOM REMARKS

Appendix C: Sustainable Strategies

University of Wisconsin-Eau Claire
New Science/Health Science Building
Eau Claire, Wisconsin

DFD Project Number 19J4E

May 28, 2021

Prepared by:

Potter Lawson
Success by **Design**

HOK

TABLE OF CONTENTS

UW EAU CLAIRE Science Building

DFD Sustainable Guidelines 5/4/2021

Measure Number	Mandatory / Encouraged / Proposed	Measures	Phase / Decision Date	ACCEPT	DEVELOP	REJECT	COST $$$ $$ $	Payback	Maintenance High / Mid / Low	Strategy/Comments	DFDM	SYSTEM	CAMPUS	PLI	HOK	AEI	CX	AYERS	SAIKI	CONTRACTOR
		Designing for Integration		**A**	**D**	**R**					**DFD**	**SYS**	**CAM**	**PLI**	**HOK**	**AEI**	**CX**	**CV**	**LAN**	**CON**
1	**Mandatory**	Integrated sustainability Team meeting		1			NA	NA	NA	The project teams recognizes the importance of integrating the architectural, mechanical and electrical systems as parts of a whole building/energy system. Mechanical, civil, plumbing and electrical engineers are integral to the success of the building design and are providing comments on the predesign architectural concept. Multiple design and Sustainability reveiw meetings have been part of the predesign with weekly coordination meetings.				P						
2	**Mandatory**	Sustainability Narrative		1			NA	NA	NA	This document lists the measures indicated in the DFD Sustainability Guidelines (both mandatory and encouraged) and highlights the strategies the project team is targeting for the sustainability goals for this project. It is the intent of the project team that this documents becomes the Sustainability Narrative for the project. This is a living document that will be updated throughout the project, not just at the reports.				P		S				
		Subtotal		**2**	**0**	**0**														

		Designing for Equitable Communities	**Phase**	**A**	**D**	**R**					**DFD**	**SYS**	**CAM**	**PLI**	**HOK**	**AEI**	**CX**	**CV**	**LAN**	**CON**
1	**Mandatory**	Walkscore		1			NA	NA	NA	The current walkscore for zip code **54701 is 0** per https://www.walkscore.com/score/54701				P						
2	**Mandatory**	Arnstein's Ladder of Citizen Participation		1			NA	NA	NA	Based on the number of meetings, engagement from faculty, staff and DFDM the current Arenstein level of engagement is **6: Partnership**				P						
3	**Mandatory**	COTE Super Spreadsheet		1			NA	NA	NA	Use a survey (or an educated guess) to determine average commuting distance and average mpg of the building's occupants. If no information is available, use the baseline (US national average).				P		S				S
4	**Mandatory**	Provide bike racks within 100 yds of the project's primary entry.		1			$	NA	NA	The project team is working with the Campus to identify the correct number of bike stalls to include in the is project. Sustainability Guidelines minimums include: Office/Workplace/Laboratory: 1 space per 2000 square feet Classroom: 1 space per 4 students For categories not specified above, provide 1 space per 2000 square feet								S	P	
5	**Mandatory**	Mother's Rooms		1			$	NA	Low	Provide (1) mother's room per the first 200 occupants, and additional capacity for each additional 200 occupants. Mothers rooms are included in the project program and conceptual plans.				S	P					
6	**Mandatory**	Wellness Room		1			$	NA	Low	Minimum of 1.				S	P					
7	**Mandatory**	All Gender Restroom		1			$$	NA	Low	All spaces which include a restroom shall provide minimum (1) all gender single-user restroom. The design team is reviewing replacing typical gendered restrooms with all gender, single user restrooms on alternating floors for the entire building.				S	P					
8	**Encouraged**	Shared parking agreements		1			NA	NA	NA	As a campus building, this project only has parking as required for loading, facility vehicles and intermittent student trips. All parking generated by this project is included in the existing campus parking masterplan.			S					S	P	
9	**Encouraged**	Dedicated bike lane connections				1	NA	NA	NA	This project will not be providing dedicated bike lane connections as the main bicycle connections, Garfield Ave. to the north or Putman Ave. to the south, are out of our scope of work.								S	P	
10	**Encouraged**	Coordinate local bike share programs				1	NA	NA	NA	Local bike share programs have been discussed for Garfield Avenue in future years, but none are currently available on UWEC's campus.			P					S	S	
11	**Encouraged**	25% reduction of onsite parking		1			NA	NA	NA	We will be meeting a 25% parking reduction on site. In Predesign 4-8 parking spaces have been shown on the plans and will be defined by UWEC with associated usage and signage.								S	P	
12	**Encouraged**	Determine the quantity of electric vehicle charging stations that the project will provide.				1	$	NA		This project has discussed electric vehicle charging stations, but has not defined if any of the limited number of spaces will be EV specific as there are only 4-8 spaces for the building. The decision for EV charging will be made by UWEC Campus Facilities as part of a larger plan of EV charging station installations.								S	P	

Measure Number	Mandatory / Encouraged / Proposed	Measures	Phase / Decision Date	ACCEPT	DEVELOP	REJECT	COST $$$ $$ $	Payback	Maintenance High / Mid / Low	Strategy/Comments	DFDM	SYSTEM	CAMPUS	PLI	HOK	AEI	CX	AYERS	SAIKI	CONTRACTOR
13	Encouraged	Provide site lighting for safety.		1			$	NA		Site Lighting will be coordinated with landscaping and other site features to maximize safety.						P		S	S	
14	Encouraged	Provide opportunities to engage with the environment		1			$	NA		Landscape plantings and site furnishings shall be focused at the new entrances to the building to provide visual and physical connections to the landscape								S	P	
		Subtotal		10	0	3														

		Designing for Ecology	Phase	A	D	R					DFD	SYS	CAM	PLI	HOK	AEI	CX	CV	LAN	CON
1	Mandatory	Dark Sky Compliance		1			NA	NA	Low	Exterior site lighting will be dark sky compliant.						P				
2	Mandatory	Tree Survey Data		1			NA	NA	NA	This project has identified all existing trees greater than 2" in caliper on a survey and has obtained the species and condition of the trees from the UWEC campus tree inventory. A list of trees proposed for removal, relocation and to remain shall be provided for this project			S					S	P	
3	Mandatory	Bird Collision Deterrence		1			$$	NA	Low	Bird collision glass is being estimated as part of the base building.				S	P					
4	Mandatory	Reduce Urban Heat Island effect		1			NA	NA	Low	i. Provide tree islands: 1 per 15 stalls minimum. This project shall provide 1 tree per 15 stalls. ii. Provide shade from architectural structures for 50% of the spaces that either: 1. Are covered with solar panels that produce energy. TBD 2. Have a vegetated roof. TBD 3. Have a Solar Reflectance Index (SRI) of at least 29. TBD				S	S				P	
5	Mandatory	Native Vegetation		1			NA	NA	Low	a. Projects involving sitework must provide a minimum of 20% native vegetation. This project shall provide a minimum of 20% native vegetation, with a goal to exceed the minimum and focus on native, low-water requirement plants to increase plant longevity, reduce maintenance and reduce water use. b. Provide planting palette data identifying which species support pollinators or provide habitat. This project shall provide planting palette data which supports pollinators or habitats as identified by research or nursery plant information.									P	
6	Mandatory	Wisconsin Environmental Policy Act			1			NA	NA	The project team will assist the DFD in WEPA coordination and project documents as required.				P						
7	Encouraged	Vegetation		1				NA		a. Provide a planting palette that does not require irrigation. UWEC's request has been to continue irrigation of this site so that it reflects the contextual landscapes on lower campus. b. Protect and conserve existing habitat and native vegetation. The required setbacks along Little Niagara to the south of the proposed building shall be honored and areas of existing habitat and vegetation will be existing to remain or restored with native plants. c. Restore habitat with new native plantings. Native plantings will be used throughout this site and habitat shall be restored in areas that connect to larger open space for greater efficacy.									P	
8	Encouraged	Green Roof			1		$$$	NA		Two sections of roof have been identified for vegetated roofs. Small tray system located on 2 separate lower roofs that will be viewed from the higher levels of the building. 1,300 SF and 2,900 SF.				S	P				S	
		Subtotal		6	2	0														

Measure Number	Mandatory / Encouraged / Proposed	Measures	Phase / Decision Date	ACCEPT	DEVELOP	REJECT	COST $$$ $$ $	Payback	Maintenance High / Mid / Low	Strategy/Comments	DFDM	SYSTEM	CAMPUS	PLI	HOK	AEI	CX	AYERS	SAIKI	CONTRACTOR
		Designing for Water	**Phase**	**A**	**D**	**R**					**DFD**	**SYS**	**CAM**	**PLI**	**HOK**	**AEI**	**CX**	**CV**	**LAN**	**CON**
1	**Mandatory**	Project Boundary		1			NA	NA	NA	The site is part of a campus and property lines do not exist specific to this project, the project boundary is based on limits of disturbance and natural barriers to the site. Garfield street to the north, The Little Niagara Creek to the south, the library and other campus buildings to the east, and the existing road to the west.								P	S	
2	**Mandatory**	Oil & Grease Control				1		NA	Mid	Not Applicable (less than 40 stall parking lot, no drive-throughs, no vehicle storage or maintenance area, no local ordinance requirements)								P	S	
3	**Mandatory**	Reduce Total Suspended Solids (TSS)		1			$$	NA	Mid	Storm water at the project site will be treated for TSS removal via grass filter strips, biofilters or other storm water treatment devices. WDNR and City of Eau Claire require 40% TSS removal, which will be met and exceeded. It is targeted to meet 80% TSS removal for the overall site, as feasible and practical.								P	S	
4	**Mandatory**	Safe Overflow		1				NA	Low	The project site is located within the 100-year floodplain of the FEMA regulated Chippewa River. The project is not in the floodway (moving water during a flood event) of the Chippewa River, but is within the flood fringe (backwaters during a flood event). The new building first floor elevation (FFE) is planned to be a minimum of 2-feet above the 100-year flood elevation, and likely closer to 3-feet above the 100-year flood elevation. The project site is also located within the 100-year floodplain or the unregulated Little Niagara Creek. A study of Little Niagara Creek has shown that the flood elevations of the Little Niagara Creek is lower than the flood elevation of the Chippewa River. Therefore, the planned building FFE will also be a minimum of 2-feet above the Little Niagara Creek 100-year flood elevation. Drainage patterns at the project site will be maintained post-development, with water discharging either to the north to the Chippewa River, or the south or west, to Little Niagara Creek (that discharges to the Chippewa River just west of the project site).								P	S	
5	**Mandatory**	Indoor Water Efficiency		1			NA	NA	Low / High	The project team is targeting a 25% reduction in indoor potable water use on non-process applications through the use of low flow fixtures. The project is reviewing the potential for an storm water collection system that will capture roof water for use in Flush valve fixtures and greenhouse irrigation.						P				
6	**Encouraged**	Peak Discharge				1	$$	NA	Mid	The project site is a redevelopment site, but stormwater rate control will not be provided for discharged water, as the site is adjacent to the Chippewa River and both the WDNR and the City of Eau Claire require that storm water discharge from properties adjacent to the Chippewa River are discharged as soon as possible.								P	S	
7	**Encouraged**	Infiltration and Stormwater Volume Control		1			$$	NA	Mid	Infiltration will be promoted through the TSS treatment biofilters.								P	S	
8	**Encouraged**	Restrict Potable Water for Permanent Irrigation		1			$$$	NA	Mid	Current practice on campus is to use water from the Chippewa River. Initial review shows there is capacity in that system to provide irrigation for this project.								S	P	
		Subtotal		**6**	**0**	**2**														

		Designing for Economy	**Phase**	**A**	**D**	**R**					**DFD**	**SYS**	**CAM**	**PLI**	**HOK**	**AEI**	**CX**	**CV**	**LAN**	**CON**
1	**Mandatory**	Focus on Energy program		1			NA	NA	NA	The project will reach out to the Focus on Energy in the Preliminary Design Phase.	S			P						
2	**Mandatory**	Energy Savings		1			NA	NA	NA	The Project team will estimate annual energy savings and greenhouse gas (GHG) emissions reduction from design over the baseline case(ASHRAE 90.1-2016).				S		P			
3	**Encouraged**	Benchmarking			1		NA	NA	NA	Benchmarking on a laboratory project is always difficult due to the varied nature and extensive list of equipment associated with the project type. The project has undergone a significant program in the initial study and program verification in this Pre Design phase. Through program cuts and strict adherence to projected square footage goals, the project team believes this project to be right sized for this program.						P				
		Subtotal		**2**	**1**	**0**														

Measure Number	Mandatory / Encouraged / Proposed	Measures	Phase / Decision Date	ACCEPT	DEVELOP	REJECT	COST $$$ $$ $	Payback	Maintenance High / Mid / Low	Strategy/Comments	DFDM	SYSTEM	CAMPUS	PLI	HOK	AEI	CX	AYERS	SAIKI	CONTRACTOR

		Designing for Energy	Phase	A	D	R					DFD	SYS	CAM	PLI	HOK	AEI	CX	CV	LAN	CON
1	Mandatory	ANSI/ASHRAE/IESNA Standard 90.1–2016.		1			$$$		Mid	The project team is targeting to meet ANSI/ASHRAE/IESNA Standard 90.1–2016. An extensive Pre-design sustainability assessment has produced a list of energy conservation measures that the team is proposing to exceed these goals.						P				
2	Mandatory	ASHRAE 90.1-2016 Compliance pathways		1			$$$			The project team is targeting the Normative Appendix G Performance Rating Method for compliance.						P				
3	Mandatory	Window to wall ratios		1			NA	NA	NA	Window to Wall Ratio (WWR) shall not exceed 30% for the east, west and south exposures. WWR on the north exposure shall not exceed 40%. These WWRs identified with building elevations assume a rectilinear building form, oriented within 20□± of true north. If the building is oriented more than 20□± off the north-south axis, then the 30% minimum applies to all elevations (SE, SW, NE, NW). For buildings with greater than average (12 feet to 13 feet) floor-to-floor height, the WWR should be proportionately decreased.				S	P					
4	Mandatory	Energy Modeling		1			$$	NA	NA	The project is using energy modeling beginning in the Preliminary Design phase to evaluate a series of energy conservation measures that will be provided in recommended bundles to establish the most efficient, comprehensive package of EMC's that the project budget can sustain.						P				
4c.	Mandatory	Predicted EUI and carbon equivalent for total building		1			NA	NA	NA	The project team has reviewed a group of 19 similar lab buildings that have an average EUI of 250. Of that list the seven closest in program and size have an average EUI of 187. The team is currently targeting an EUI between 175-200 pending further program refinement.				S		P				
5	Mandatory	Chlorofluorocarbon (CFC)-based refrigerants are not to be used			1			NA		There is very little cold storage associated with the project program and the team anticipates meeting this measure.						P				
6	Mandatory	Building-level energy meters, or submeters		1			$$	NA		The project is anticipating using both Building-level energy meters, and submeters that can be aggregated to provide building-level data representing total building energy consumption. The project plans on separately tracking electricity, natural gas, chilled water, energy generated from PV, and steam.) At a minimum, energy consumption will be tracked at one-month intervals.						P				
7	Mandatory	CxA shall verify the entering of monthly utility data for the first 12 months of operation			1		$	NA	NA	The commissioning agent is under a separate DFD Contract, and is not in the scope of the design team. The design team will coordinate with the commissioning agent to incorporate specifications and schedules in the project.	P									
8	Mandatory	1% of on-site renewable energy sources		1			$$$	20-25 years	Mid	The project team has estimated that a 90 kW system will meet the 1% threshold. Approximately 16-20,000 SF of roof space is available. Initial review have shown that this is more than enough space to support the system.					S	P				
9	Mandatory	Project design is solar-ready		1			$$	NA	NA	The roof structure is designed to accept additional solar panels across the entire available surface.					S	P				
10	Mandatory	Adequate air tightness of building envelope		1			$	NA	Low	A continuous air barrier is included in the exterior wall design for this project. Envelope commissioning is recommended as part of the building commissioning plan.				P						
11	Mandatory	Feasibility of providing an on-site battery storage system				1	$$$	NA	NA	Preliminary review of the estimated energy usage for this building indicates the size of the battery storage system would create a room that will not fit within the current program size of the building.					S	P				
12	Proposed	Lighting power density reduction		1			NA		Low	The project team is reviewing the following targets: Laboratory average 50 fc, 1 W/sf Open office .85 W/sf Private office 1 W/sf Conference lighting 50 fc, 1.15 - 1.35 W/sf			S			P				
13	Proposed	Roof mounted PV		1			$$$		Mid	The project is targeting the 1% renewable energy threshold to be provided be Photovoltaic.					S	P				
14	Proposed	High performance building envelope		1			$$$		Low	The exterior envelope is under development and will include energy modeling to test insulation thickness, high performance glazing, complete air barrier coverage and testing, plus enclosure commissioning.				P	S					

Measure Number	Mandatory / Encouraged / Proposed	Measures	Phase / Decision Date	ACCEPT	DEVELOP	REJECT	COST $$$ $$ $	Payback	Maintenance High / Mid / Low	Strategy/Comments	DFDM	SYSTEM	CAMPUS	PLI	HOK	AEI	CX	AYERS	SAIKI	CONTRACTOR
15	Proposed	Geothermal			1		$$$	20-25 yrs.	Mid	The project has reviewed 4 separate Geothermal systems and is currently focusing on a system that targets 40-50% of Peak Capacity. System Description: 850' deep, 1U, HDPE 4710, 1-1/2" pipe, 25' oc. 175-225 boreholes; cost: $3,250,000 – $4,250,000 (2.5-3.2 acres) Challenges: - High first cost, ROI 20-25 Yrs. - Cost does not include Stormwater Measures - Bore field: Phillips Parking Lot, Nursing parking Lot 2.62 Acres available adjacent to wetlands. - Parking reduced during construction - Phase the drilling to maintain required parking and circulation - Deeper bores require 3 days per well - 200 wells require over 25 months of drilling - Requires Contractor with 4-6 drills						P				
16	Proposed	Energy recovery wheel			1		$$$		Mid	Energy Modeling will be used to test the effectiveness of this solution in the preliminary Design Phase. This will depend on other measures (independent lab exhaust) to provide the most efficiency.						P				
17	Proposed	Reduced stack velocities			1		$$		Low	Energy Modeling will be used to test the effectiveness of this solution in the preliminary Design Phase.						P				
18	Proposed	Heat recovery chiller/data room			1		$$$		Mid	Energy Modeling will be used to test the effectiveness of this solution in the preliminary Design Phase.						P				
		Subtotal		12	6	1														

		Designing for Wellness	Phase	A	D	R					DFD	SYS	CAM	PLI	HOK	AEI	CX	CV	LAN	CON
1	Mandatory	Smoke-Free Environment		1				NA	NA	The UW Eau Claire is a smoke free campus			P							
2	Mandatory	Biophilia		1				NA	NA	The project stakeholders shall hold a meeting in Preliminary Design phase dedicated to integrating biophilic design into the project. Pre Design has focused on daylighting and views as an integral part of the project design.				P	P					
3	Mandatory	Daylighting		1				NA	Mid	The project is complying with the WWR as prescribed in the Sustainable Design Guidelines. The project is working to provide access to daylight as much as possible given the project size and compact nature of the footprint given the site constraints. As is the nature of laboratory projects, several portions of the program do not want direct daylighting into some spaces. The project team is targeting two main strategies for daylighting: - Locate workspaces such that at least 30% of all workstations are within 20 feet of transparent envelope glazing. - Transparent envelope glazing is no less than 7% of the floor area for each floor level.				S	P	S				
4	Encouraged	Acoustic Comfort			1		$	NA	Low	The design team is reviewing the recommended acoustic levels from the DFD sustainability Guidelines for incorporation into the project.				P	P					
		Subtotal		3	1	0														

Measure Number	Mandatory / Encouraged / Proposed	Measures	Phase / Decision Date	ACCEPT	DEVELOP	REJECT	COST $$$ $$ $	Payback	Maintenance High / Mid / Low	Strategy/Comments	DFDM	SYSTEM	CAMPUS	PLI	HOK	AEI	CX	AYERS	SAIKI	CONTRACTOR
		Designing for Resources	**Phase**	**A**	**D**	**R**					**DFD**	**SYS**	**CAM**	**PLI**	**HOK**	**AEI**	**CX**	**CV**	**LAN**	**CON**
1	**Mandatory**	Exotic Hardwood Prohibition:		1				NA	NA	The project team will follow the Exotic Hardwood Prohibition as required by the DFD Sustainability Guidelines.				P	S					
2	**Mandatory**	Environmental Product Declarations(EPDs): for Tenant Improvement				1		NA	Low	Complying with Measure 4 below				P	P					
3	**Mandatory**	Life Cycle Assessment (LCA) that tracks embodied carbon		1			$$	NA	NA	A life Cycle Analysis is included in the Scope of the MEP consultant, and will be started in the Preliminary Design.						P				
4	**Mandatory**	Environmental Product Declarations (EPDs): for New Construction		1				NA	Low	Environmental Product Declarations (EPDs): Use a minimum of 20 products with EPDs.				P	P					
5	**Encouraged**	Responsible Steel Usage:			1			NA	NA	The project team is reviewing the encouraged measures for responsible steel use in the preliminary Design Phase.	S			P						
6	**Encouraged**	Responsible Concrete Usage:			1			NA	NA	The project team is reviewing the encouraged measures for responsible concrete use in the preliminary Design Phase.	S			P						
7	**Encouraged**	Responsible Architectural Insulation Usage:			1			NA	NA	The project team will be specifying Mineral wool for wall insulation, and will use energy modeling to find the appropriate level of insulation for the project.				P						
8	**Encouraged**	Responsible Wood Sourcing:			1			NA	NA	The project team is reviewing the encouraged measures for responsible wood sourcing use in the preliminary Design Phase.				P	S					
9	**Encouraged**	Local and Regional Priority			1			NA	NA	The project team is reviewing the encouraged measures for local and regional Priority in the preliminary Design Phase.				P						
		Subtotal		**3**	**5**	**1**														

		Designing For Change	**Phase**	**A**	**D**	**R**					**DFD**	**SYS**	**CAM**	**PLI**	**HOK**	**AEI**	**CX**	**CV**	**LAN**	**CON**
1	**Mandatory**	Reuse Reporting				1		NA	NA	All new construction										
2	**Mandatory**	Risk Assessment		1				NA	NA	Typical risks for Eau Claire include: **Flooding**: Currently, the largest risk associated with the site is that it is within the 100 year flood plane. Please see the Designing for Water, Measure 4 "Safe Overflow". **Severe Thunderstorms / Hail Storms and Tornadoe**s: The City of Eau Claire employs weather sirens to warn of Severe Thunderstorms or Tornado warnings, see https://www.uwec.edu/risk-management-safety/weather-warnings/ for additional information. Maps of safe areas are provided within each Campus building. **Building fires**: The University of Wisconsin Eau Claire conducts building fire evacuation drills. **Wildfires:** Eau Claire is a very low risk of wild fires. **Societal Risks:** Crime risk is low in this area			S	P	S	S		S	S	
3	**Mandatory**	Resilience		1				NA	NA	The project team has not identified the site as a potential for persistent erosion.								P	S	
4	**Encouraged**	Renewable-Ready		1				NA	NA	The project is accounting for additional Photovoltaic panels across the entire roof and the electrical room is being designed to account for additional Solar panels.						P				
5	**Encouraged**	Interchangeability			1			NA	NA	The entire building structural system is based off of a specific structural grid that accounts for the typical placement of lab benches in a laboratory classroom or research setting. This makes future renovations easier since everything is built on a design module. Additional strategies that will be reviewed in preliminary design include: Designing the Control areas for future flexibility, using the Service corridors for key utility distribution to be able to change or service utilities without shutting down labs, working with the stakeholders to select adaptable lab casework and furniture, reviewing the potential for adaptable overhead utility carriers in the lab spaces.				S	P	S				
		Subtotal		**3**	**1**	**1**														

Measure Number	Mandatory / Encouraged / Proposed	Measures	Phase / Decision Date	ACCEPT	DEVELOP	REJECT	COST $$$ $$ $	Payback	Maintenance High / Mid / Low	Strategy/Comments	DFDM	SYSTEM	CAMPUS	PLI	HOK	AEI	CX	AYERS	SAIKI	CONTRACTOR
		Designing for Discovery	**Phase**	**A**	**D**	**R**					**DFD**	**SYS**	**CAM**	**PLI**	**HOK**	**AEI**	**CX**	**CV**	**LAN**	**CON**
1	Mandatory	CxA to track utilities 6, 12, and 18 months			1			NA	NA	The commissioning agent is under a separate DFD Contract, and is not in the scope of the design team. The design team will coordinate with the commissioning agent to incorporate specifications and schedules in the project.	P			S		S				
2	Mandatory	A meeting to discuss lessons learned		1				NA	NA	The Design team will work with DFD to have this meeting.	P			S	S	S		S	S	
3	Encouraged	Preoccupancy evaluation			1			NA	NA	The project was provide a predesign study that included a study of the existing facility.				S	P	S				
4	Encouraged	Provide educational tours and training			1			NA	NA	Close out procedures will include educational tours and training for building management.				S	S	P				
		Subtotal		**1**	**3**	**0**														
		Project Total		**48**	**19**	**8**					**DFDM**	**SYSTEM**	**CAMPUS**	**PLI**	**HOK**	**AEI**	**CX**	**AYERS**	**SAIKI**	**CONTRACTOR**

RESPONSIBILITY CODE
P - Primary Party Responsible for Submittal
S - Secondary Party Responsible for Submittal
T - Tertiary Party Responsible for Submittal

Sustainable Design Features to Consider

PROPOSED MEASURE										ADVANTAGES	DISADVANTAGES			
Title	Description	Accept, Study or Reject (A / S / R)	Cost Impact: Included in Base Include in % Estimate	Bundle 1 Base	Bundle 2 Base + %	Bundle 3 Geo	Bundle 4 Mod	Bundle 5 Best			Type of Benefit	EVALUATION AND DESIGN RESPONSIBILITY [firm initials]	
BUILDING FORM & ENVELOPE													
B2 **Envelope Commissioning (e.g. Vapor/Thermal Barrier Infrared Camera scanning during construction)**	Minimize energy loss resulting from building leakage and control moisture transfer. Review the guidelines for cont. air barrier. Could require pressure test on the building or a mock-up.	A	Base	Y	Y	Y	Y	Y		Minimize building leakage and energy losses. Vapor barrier helps to control moisture transport and condensation concerns inside walls and spaces. Compatible with 100% outdoor air HVAC systems.	Potential cost increase. Will depend on comparison between cost/sq.ft. versus conditioning of make-up air lost	Energy Conservation		B2
B3 **Sunshades and Sun Screens - External**	Utilize external structures and/or elements that provide reduction, elimination, or diffusion of direct solar radiation into building spaces.	S	%	-	Y	Y	Y	Y		Reduced cooling load requirements and smaller HVAC equipment. Potential to reduce/eliminate visual glare due to direct solar radiation.	Can be higher first cost and possible penalty against LEED daylighting credit. Can be a source of glare or visual distraction. Blocked view may not be desirable. Typically dangerous with winter and ice.	Visual Comfort, Energy Conservation		B3
B4 **Sunshades and Sun Screens - Internal**	Utilize internal blinds or and/or elements that provide reduction, elimination, or diffusion of direct solar radiation into building spaces (i.e. solar-controlled MechoShades).	A	Base	Y	Y	Y	Y	Y		Reduce or eliminate visual glare that often leads to visual discomfort for occupants. Limited cooling load reduction primarily occupant comfort benefit only.	Internal window treatments do not provide the same potential for reducing solar heat gain to the occupied space. A visual disconnect is created to the outside.	Visual Comfort, Energy Conservation		B4
B7 **Low-Energy Owner Furnished Equipment (ULT -80 Freezers, etc.)**	Select low energy-consuming equipment such as computers, printers, kitchenette appliances, -80 freezers, and other lab equipment (Energy-Star if possible). Products with an low-energy mode should be considered. This will come from the Campus, the Design team is not studying this, as equipment costs are outside of construction estimates. Design team to impress on the faculty the importance to make these selections.	A	NA	Y	Y	Y	Y	Y		Lower electrical consumption and lower air-conditioning loads. Potential for electrical equipment to be down-sized if know what loads of equipment will be.	Limited availability of low-energy equipment data for use in selection. Purchasing protocols may not accommodate. Owner driven.	Energy Conservation		B7
B8 **Vegetated Roof**	Small tray system located on 2 separate lower roofs that will be viewed from the higher levels of the building. 1,300 SF and 2,900 SF.	A	$252,000	-	Y	-	Y	Y		Vegetated roofs provide increased insulation. The evapotranspiration process also provides "local" cooling of the roof surface. Heat island effect is reduced. The vegetation provides a micro ecosystem. Storm water runoff from the building is reduced or eliminated due to residence time in the soil. does vegetated roof pre-filter water?	Structural requirements may increase first cost. Plantings should be properly selected to minimize maintenance and increase likelihood of success. If roof mounted mechanical equipment, then little room for vegetation. Most buildings that are designed for snow load can handle an extensive vegetated roof. Vegetated roof can be located on top of the penthouse, above most equipment, depending on mechanical design and roof configuration. Electronic leak detection system required? Reduces total quantity of roof water available for reuse at plumbing fixtures (flushing) and cooling towers (make-up).	Energy Conservation, Water Conservation		B8
B9 **Thermal Breaks/Increase R-Value at Perimeter Ceiling Spaces**	Provide additional insulation of perimeter ceiling spaces. Thermal breaks.	A	Base	Y	Y	Y	Y	Y		Reduced heat gain from ceiling space of perimeter rooms. Improved insulation effectiveness of all HVAC and Piping utilities located in ceiling space.	Higher first cost.	Energy Conservation		B9
B10 **High-Performance Glazing** (beyond code or DFD)	Select glazing with lower shading coefficient (SC) and/or U-value. Select glazing with visible light transmittance that compliments desired daylighting design/system.	S	Base	Y	Y	Y	Y	Y		SC - Reduce solar heat gain to the space. Note that for passive solar heating this could be a disadvantage. U-value - Reduce thermal transmission through the glazing. Tvis - provide sufficient light to allow for dimming of electrical lighting system. Can have comfort affects. Potential to eliminate perimeter fin tube.	Higher first cost. Increased performance/load reduction might lead to higher annual energy consumption/cost in situations where the occupied space would want to experience higher thermal and radiation exchange. Visible light transmittance values may be too high or too low for an optimized daylighting system. Argon has very little effect.	Visual Comfort, Energy Conservation		B10
B11 **Rainscreen Façade**	Building cladding with ventilated cavity between interior component of structural/ thermal envelope.	A	Base	Y	Y	Y	Y	Y		Improved thermal envelope, simpler thermal/vapor barrier construction, reduced risk of vapor transmission, and potential for reduced cooling load.	Newer construction technology. Limited manufacturers.	Energy Conservation		B11
B15 **Building Massing Review**	Use energy modeling to review the best orientation for the building footprint.	A	Base	Y	Y	Y	Y	Y		Optimizes the solar orientation for the building massing to take advantage of daylighting and solar thermal heat gain.	This is a tight site. Program, orientation, and footprint are going to dictate the building general form.	Energy Conservation		B15
B16 **Optimize window to wall ratio**	Code maximum of 40% window to wall ratio.	A	Base	Y	Y	Y	Y	Y		Larger window areas bring in more daylight and provide better views. They also have a lower insulation value than sold walls. Balancing those needs provides an appropriate amount of energy savings.	Larger window areas lower a building's energy efficiency.	Energy Conservation, User comfort		
B17 **Optimized Insulation Strategy**	Determine the optimal insulation for this project	A	Base	Y	Y	Y	Y	Y		Identifies the appropriate level of insulation for this building.	Over insulation may not have a payback, money is better spent on other options	Energy Savings		
B18 **Review Triple Pane Glazing Units**	Triple pane glazing provides a higher R-Value for better insulation values. Assume 10% of overall glass. Use at north facing Sticky spaces.	S	%	-	Y	Y	Y	Y		Higher insulation values. Makes areas of high glazing percentage more comfortable.	High first cost, rarely has a payback, may make sense in specific areas for comfort.	Energy Savings, Comfort		B18
ALTERNATE ENERGY GENERATION														
A1 **Photovoltaics (PV), Roof Collector Panels. PV ready will be studied also as part of this study. Team will review the potential of 1%. Conceptual estimates have indicated a 90 kW system to be planned for.**	Flat panels that collect and convert the sun's radiant energy into usable electrical energy. The Penthouse rood has an estimates 16-20,000 SF available. 90 kW system should fit within this space easily.	A (1% per DFD guidelines)	$1,644,500	Y	Y	Y 1% threshold	Y	Y		Reduced dependency on the existing energy infrastructure.	Initial investment cost, limited roof space.	Energy Conservation		A1
A2 **Project design as solar-ready**	Review the potential for additional future solar production. The penthouse roof to be designed to accept the load for future panels, Typically we are seeing anything from 8 to 15 psf loading.	A	$610,000	-	Y	-	Y	Y		Have the infrastructure in place for additional Solar Panels	First cost.	Energy Conservation		A2

Sustainable Design Features to Consider

PROPOSED MEASURE									ADVANTAGES	DISADVANTAGES			
Title	Description	Accept, Study or Reject (A / S / R)	Cost Impact: Included in Base Include in % Estimate	Bundle 1 Base	Bundle 2 Base + %	Bundle 3 Geo	Bundle 4 Mod	Bundle 5 Best			Type of Benefit	EVALUATION AND DESIGN RESPONSIBILITY [firm initials]	
SITE													
S1 **Rooftop Rainwater Collection & Reuse**	Capture, store and treat and rooftop rainfall and use for the indirect evaporative cooling portion of the HVAC's enhanced run around loop and for supply site irrigation. Standard to have irrigation available on all building sites. Discuss with Campus Landscape Designer. Availability of existing Chippewa River inlet/distribution for irrigation makes building-capture less promising.	S	$150,000	-	-	-	Y	Y	Reduces potable water make up for building and/or site uses that do not require potable quality. Relatively clean water source that minimizes need for extensive treatment. Reduced water usage for irrigation, Green House, toilet flushing, and cooling tower make-up water. Potential use for indirect evaporative cooling approach. Site retention may already be required so additional cost may be minimal.	Requires substantial space for storage to capture large, infrequent rain events and requires treatment system. Current water rates challenge system economics. Rainwater may be limited to use for irrigation purposes only. Code may prevent use inside building (e.g. for flushing urinals or water closets) or as make-up to cooling tower.	Water Conservation		S1
S2 **Education Opportunities**	Use signage and other strategies to highlight stormwater control areas, wetlands, or any other areas that can be a teaching opportunity. Campus Landscape designer to discuss restoration projects.	S	%	-	Y	Y	Y	Y	Exhibits the project as a teaching tool.	Cost and maintenance	Awareness		S2
S3 **Bird Collision Deterrence**	Utilize reduce glazing strategies of glass specifically designed to reduce bird strikes.	A	Base	Y	Y	Y	Y	Y	Reduces Bird strikes on buildings	First cost for glazing strategies.	Wildlife		S3
S4 **Dark Sky Compliance**	Dark Sky Compliant lighting design	A	Base	Y	Y	Y	Y	Y	Reduces light pollution.		Wildlife, Energy savings		S4
S5 **Native Vegetation**	Plant native or adaptive vegetation.	A	Base	Y	Y	Y	Y	Y	Reduces need for irrigation. Provide planting palette data identifying which species support pollinators or provide habitat.		Biodiversity, water conservation		S5
S6 **Reduced Heat Island Effect.**	Shade hardscapes and use materials with a higher albedo.	A	Base	Y	Y	Y	Y	Y	Reduce the radiant heat from hardscape areas that artificially raised the temperature in microclimates.		Energy savings		S6
S7 **Stormwater Quality and Quantity Control**	Reduce the Total Suspended Solids and review requirements for peak discharge	A	Base	Y	Y	Y	Y	Y	Reduces pollution in the water systems and helps control runoff.		Water Quality		S7
S8 **Pedestrian Networks and Transit connections**	Create pedestrian networks and transit connections	A	Base	Y	Y	Y	Y	Y	Reinforce the pedestrian connections across campus to promote walking and connectedness.		Health		S8
S9 **Minimize impact/protect Little Niagara Creek**	Review the possibility to enhance with restoration with native vegetation	A	Base	Y	Y	Y	Y	Y	Protect the Creek during construction and form future erosion events.		Water Quality		S9
S10 **Engage with Little Niagara Creek**	Provide opportunity to engage with Little Niagara Creek physically and visually	S	%	-	Y	Y	Y	Y	Science learning and discovery on display – stormwater visibility/various BMP's, native stone, native plants		Awareness		S10
S11 **Provide Bike Racks**	Provide bike racks within 100 yds of the project's primary entry.	A	Base	Y	Y	Y	Y	Y	Promote bike use to reduce vehicular traffic.	Not always effective in winter	Health		S11
S12 **Native or regionally sourced materials**	Provide regionally sourced materials for the site design and construction	A	Base	Y	Y	Y	Y	Y	Reduced vehicular shipping traffic		Carbon Reduction		S12
OPERATIONS													
O1 **Building Performance Display**	Provide graphical or physical display to convey the performance of various building systems such as electrical consumption, water use, and renewable energy production.	S	$254,247	-	Y	-	Y	Y	Educational feedback on how the building operates during times of the day as well as over longer durations. Informs occupants of the extent to which buildings and their systems consume resources. A variety of products are available on the market and data can easily be supplied via the BAS. Helps to maintain sustainable performance over time by providing ongoing energy use performance for the building or specific parts of the building.	Requires space in public area for easy access/viewing. Various data points are required, potentially requiring the addition of meters not typically included in design. Mostly metering lighting and power, if we meter the water this can get costly. Requires the **Campus to commit** to maintain this system, and requires programming to set the system up correctly.	Education; Energy & Water Conservation		O1
O2 **Lab Neighborhood Performance Display**	Frame the discussion about how well a group is doing over time, not compared to each other.	S	$95,343	-	Y electrical only	-	-	Y electrical plus air systems	Promote energy conservation among the building users.	Will require more effort than just the building performance. Metered off the air flow stations in the labs. Competition becomes an issue for certain labs that are heavy energy use.	Education; Energy & Water Conservation		O2
O3 **Measurement & Verification (M&V)**	Installation of meters to monitor end use energy and water consumption (i.e. fans, pumps, cooling, etc.) at a minimum. Additional sensors may be added to monitor performance of systems of interest and/or to provide higher level resolution (i.e. by floor, lab group, etc.)	A	%	-	Y	Y	Y	Y	Required by DFDM Standards	Metering can be costly to get installed. Electric meters are manageable, it gets complicated with steam, water and so forth.	Awareness		O3
O4 **Setbacks**	Discuss scheduling; Reduce high and/or low end ACH based on occupancy and best practices. Potential to shut off fume hoods when not in use. This is a discussion with Campus. What can be turned off when not in use.	A	Base	Y	Y	Y	Y	Y	significant reductions in ventilation, heating/cooling and fan energy	discuss with EHS	Energy Conservation		O4
O5 **Fault Detection & Diagnostics (FDD)**	Specification of enhanced building automation system (BAS) capabilities for trending, fault detection and simplified graphics for improved operations. Discussion with Control people at campus.	S	$200,000	-	-	-	-	Y	Quicker identification of issues. The controls sense something is going out of calibration before a failure. Tied to building systems.	High Cost.	Energy Savings		O5

Sustainable Design Features to Consider

	PROPOSED MEASURE									ADVANTAGES	DISADVANTAGES			
	Title	Description	Accept, Study or Reject (A / S / R)	Cost Impact: Included in Base Include in % Estimate	Bundle 1 Base	Bundle 2 Base + %	Bundle 3 Geo	Bundle 4 Mod	Bundle 5 Best			Type of Benefit	EVALUATION AND DESIGN RESPONSIBILITY [firm initials]	
PLUMBING														
P2	**Dual-Flush Toilet Valves**	Utilize two-position flush valves. User activates 1.0 GPF position for liquid-only wastes and 1.6 GPF position for liquid-solid wastes. Run by the DFDM Plumbing.	S	Base	-	Y	Y	Y	Y	Reduced water usage	Limited historical data on reliability. Relies on the toilet room user to make a determination about which valve position to activate. Many users flush with foot which tends to use 1.6 gpf or even higher flows when flush valve does not move vertically up or down.	Water Conservation		P2
P3	**High Efficiency Toilets (HET)**	Utilize flush valve and bowl design that allow for 1.28 GPF.	A	Base	Y	Y	Y	Y	Y	Reduced water usage. Consistent flush volume ensures water savings.	None	Water Conservation		P3
P4	**Low Flow Plumbing Fixtures**	Indoor water efficiency	A	Base	Y	Y	Y	Y	Y	Review low flow options for all plumbing fixtures where appropriate		Water Conservation		P4
P5	**Chilled Condensate Recovery**	Collect cooling coil condensate from the AHU's and use elsewhere. Requires dedicated drainage pipes, collection tank, water meters, and pumping system. Good if used with a stormwater collection. Team to look at the cooling tower next door. This likely only makes sense if we accept item S1, and have a cistern/storage already in the project.	S	Inclided in S1	-	-	-	Y	Y	Lower domestic water usage for flushing and irrigation, or utilize as part of an evaporative cooling strategy (direct or indirect). Opportunity to recover cooling energy may be present.	Higher first cost. Additional piping and space for storage tank. Filtration and treatment may be required.	Water Conservation		P5
P6	**RO Water System Right-Sizing. Have the right level of RO water for the actual need.**	Determine where/how much RO water is required	A	Base	Y	Y	Y	Y	Y	Reduced water usage	Cannot reclaim the backwater effectively.	Water Conservation		P6
P7	**Instantaneous Domestic Hot Water Heaters**	Use instantaneous or semi-instantaneous domestic hot water heaters in lieu of storage-type hot water heaters	A	%	-	Y	Y	Y	Y	Eliminates "stand-by" energy losses inherent with storage-type water heaters.	None likely. In order to insure proper leaving water temperature control, minimum DHW demand must be high enough to exceed manufacturer's minimum flow rate.	Energy Conservation		P7
P9	**Heat Recovery for waste water. Study further down the road.**	Recover heat through a heat recovery coil. Works well for heavily occupied systems.	S	$317,809	-	-	-	-	Y	Collect heat from the waste water.	Not using much hot water. Expensive systems. Potential Acid waste system. Not many once through water systems.	Energy Savings		P9
P10	**Eliminate Once-Through Process Cooling**	Utilize dedicated process cooling loop to avoid using once-through domestic potable water.	A	Base	Y	Y	Y	Y	Y	Avoids waste of high-quality potable water	Additional cost of process chiller, PCHW loop, and/or additional CHW. Some loads are minimal and it's difficult to justify added cost.	Water Conservation		P10
BUILDING HVAC SYSTEMS														
H1	**Expand Thermal Comfort Range**	Approach Client about the possibility of expanded the comfort range, and thus the temperature/humidity setpoints.	S	%	-	Y	Y	Y	Y	Allow for passive design strategies to meet space comfort conditions. Potential exists to reduce active mechanical equipment sizing.	Occupants would need to adjust to non-U.S. thermal comfort standards. Certain space types may not be viable candidates due to activities taking place within. Approve with the campus and push boundaries even further (68-78), this is a later study	Energy Conservation		H1
H3	**Variable Air Volume Control - Overhead**	Modulate air delivery system to meet heating/cooling demand while maintaining minimum air change rates. Utilize supply and exhaust modulating valves or terminal units. Provide overhead mixing in space.	A	Base	Y	Y	Y	Y	Y	Reduced HVAC equipment size (i.e. diversified load) plus reduced fan and cooling energy.	Increased construction cost for VAV boxes and control systems (i.e. 2 boxes per room). Greater ceiling space requirements leads to more above-ceiling congestion.	Energy Conservation		H3
H5	**Recirculated Air System**	Recirculate Return air through high efficiency filter. Minimizes energy needed for conditioning outside air. From non lab space to lab space.	A	%	-	Y	Y	Y	Y	Reduced energy use in conditioning outside air. Reduced equipment size. Can be done as part of a cascading air scheme. Can provide "free" preheat/reheat of OA. For non lab spaces	Infection control. Potential hazard in recirculating contaminated air.	Energy Conservation		H5
H7	**Radiant Heating - Mass Floor**	Circulate heating hot water through tubes within the structural slab. Lower HW temps suitable (95-110F). Linked to H8. Planning potential only for open public areas	S	$250,000	-	-	-	Y	Y	Increased occupant comfort. Typically see energy savings. Opportunity to heat HW with recovered energy . May not be an increase in slab height. Heating capacity typically available if sized for cooling. Atrium, Offices	Higher first cost and added complexity. Increase in HW piping. Response time is slow (though thermal lag is a benefit at times). Still requires ventilation system.	Energy Conservation, Indoor Environmental Quality		H7
H8	**Radiant Cooling - Mass Floor**	Circulate chilled water through tubes within the structural slab. Warmer CHW temps suitable (60-63F). Linked to H7. Planning potential only for open public areas	S	$250,000	-	-	-	Y	Y	Increased occupant comfort. Typically see energy savings. Opportunity to make CHW with recovered energy or cooling tower alone. May not be an increase in slab height. Atrium, Offices	Higher first cost and added complexity. Increase in chilled water piping. Response time is slow (though thermal lag is a benefit at times). Limited cooling capacity so façade design and internal loads must be considered. Still requires ventilation system. Latent load must be addressed at AHU.	Energy Conservation, Indoor Environmental Quality		H8
H9	**Chilled Beams - Active (Combine w/DV)**	Primary air supplied to an induction-type diffuser creates a secondary airflow that passes over a coil through which chilled water is circulated. Warmer CHW temps suitable (60-63F). Latent capacity provided at AHU. ACB coils run dry. Only use in specific areas with 100% outside air. There is ventilation air. DFDM not a fan of chilled beam systems.	S	$1,315,820	-	-	-	-	Y	Increased occupant comfort. Typically see energy savings. Opportunity to make CHW with recovered energy or cooling tower alone. Response time is good, accommodating changes in room conditions. Capacity is greater than with radiant cooling. No increase in slab height. Allows decoupling of ventilation and sensible cooling loads (i.e. lab equipment). Chilled beams: Low air change makes viable in Lab spaces.	Higher first cost and added complexity. Increase in chilled water piping. Cooling capacity of ACB only available if primary air is being supplied.. Latent load must be addressed at AHU.	Energy Conservation		H9
H11	**Pre-cooling - Outside Air using Fluid Cooler**	Use closed-circuit fluid cooler with dedicated pumping and piping system. Only makes sense with Geo-thermal.	S	$250,000	-	-	Y	-	Y	Reduced chilled water load at AHU cooling coils and CHW consumption.	Higher first cost. Extra pumping energy. Chilled water load (i.e. chilled beams, etc.) must match with capacity provide by fluid cooler. Shoulder months or warm winter days will require other CHW source.	Energy Conservation		H11
H12	**Rotary Heat Wheel - Total Energy Recovery**	Use a rotating heat transfer wheel that recovers sensible and latent energy from the exhaust air stream and transfers it to the OA stream (counterflow design), and vice versa.	A	%	-	Y	Y	Y	Y	Reduce heating and cooling energy. Reduce humidification and dehumidification required during dry and humid months, respectively, when utilizing wheel with latent transfer.	Additional capital expense and additional maintenance. Cross-contamination of supply and exhaust air streams can be minimized with a purge section; but cannot be completely eliminated. Supply and exhaust streams must be side by side. Space requirements increase, typically with respect to AHU height. Increase in fan energy due to static pressure across wheel.	Energy Conservation		H12
H13	**Split vs Combined Laboratory Exhaust Systems**	Study: dependent on the fume hood numbers. May work in certain lab areas. Very effective.	S	Base	Y	Y	Y	Y	Y			Energy Conservation		H13
H14	**Run-Around Coils (Energy Recovery)**	Use heat transfer coils that recover sensible energy from the exhaust air stream and transfer it to the OA stream. This can be used to pre-heat or pre-cool the incoming OA depending on the season.	A	Base	Y	Y	Y	Y	Y	Reduced energy consumption to condition outside air. A third coil can also be used, after the cooling coil, allowing the run-around loop to be used like a wrap-around heat pipe during summer months. No possibility for cross-contamination. Could be paired with indirect evap cooling strategy.	Additional capital expense and additional maintenance. Difficult to achieve short-term payback periods in mild climate. Not as effective in recovering cooling energy as is a wet-bulb-based pre-cooling system (See "Outside Air Pre-Cooling with Fluid Cooler").	Energy Conservation		H14
H15	**Heat Recovery Chiller**	Study: only works in specific instances.	S	%	-	Y	-	Y	Y	Smaller size with Geothermal. With the split exhaust, this is a smaller, process sized chiller around 100-200 tons.		Energy Conservation		H15
H17	**Fan Wall Technology** - Multiple Fan Arrays	Utilize multiple, smaller supply fans in lieu of a single large fan.	A	Base	Y	Y	Y	Y	Y	Reduced AHU footprint, fan energy, cost and noise. Provides additional equipment redundancy. May decrease operating horsepower for emergency generator.	Save space and money on sound attenuators. Requires sole source purchase from Huntair.	Energy Conservation		H17

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H18	**Supply Air Temperature Reset**	Adjust supply air temperature to highest temperature that still meets cooling demand of all zones.	A	Base	Y	Y	Y	Y	Y	Save energy on chiller load and zone reheat coils	Space humidity levels could be considered uncomfortable by some depending on OA conditions and mixed air ratio.	Energy Conservation		H18
H19	**Low Velocity Ductwork**	Design ductwork using lower than "typical" velocities. Study only	S	%	-	Y	Y	Y	Y	Save fan energy due to lower external static pressure.	Space requirements for ductwork increase. Ductwork needs to go where they need to go. Fans are major energy user in the building.	Energy Conservation		H19
H20	**Supply Air Pressure Reset**	Adjust supply fan static pressure to lowest duct pressure that keeps all terminals (or 90%-95% of terminals) in control.	A	Base	Y	Y	Y	Y	Y	Annual fan energy savings of approximately 66%. Reduced duct pressure also reduces duct leakage rate	Applies to VAV systems only. More complex control sequence.	Energy Conservation		H20
H21	**Demand Ventilation, CO_2-based Sensing**	Use CO2 sensors to determine space occupancy and adjust outside air supplied to space accordingly. Code required levels are in base, this item is for spaces beyond code.	A	%	-	Y	Y	Y	Y	Potential to lower supply and exhaust fan energy. Reduce heating and cooling energy required to condition OA.	Higher construction cost. CO2 sensors required frequent recalibration.	Energy Conservation		H21
H24	**Humidity and Dewpoint Sensing Tied to radiant cooling**	Use sensors to determine space dewpoint and temperature for active humidity control in order to accommodate radiant cooling systems. Linked to H-8 ad nH-9 only.	S	Estimate	-	-	-	Y	Y	Provides active means to control water-based systems so as to avoid condensation.	Most humidity sensors need to be calibrated frequently and may not provide consistent readings. Aircuity may provide better reliability and simpler calibration.	Energy Conservation		H24
H25	**Reduced Minimum ACH - Occupancy Sensor**	Use occupancy sensors to control/allow for setback in minimum air change rates (typically in lab spaces, potentially in patient rooms)	A	%	-	Y	Y	Y	Y	Reduce supply and exhaust fan energy. Reduce heating and cooling energy. Potential to take diversity credit when sizing AHU's and main distribution ducts and shafts.		Energy Conservation		H25
H26	**Reduced Minimum ACH - Dynamic Ventilation (Aircuity)**	Use space air sampling/testing technology to evaluate quality of air in the space and provide option to setback minimum air change rates accordingly. A centralized or distributed sensor approach can be used.	S	$1,000,000	-	-	-	Y	Y	Reduce supply and exhaust fan energy. Reduce heating and cooling energy. Potential to take diversity credit when sizing AHU's and main distribution ducts and shafts.	High installed cost of sensors. Calibration of distributed sensors may be an O&M challenge. May not be applicable, meet minimum from EHS. High maintenance.	Energy Conservation, Indoor Environmental Quality		H26
H27	**Reduced Minimum ACH - Zone Sensible Cooling (additional Fan coil / chilled beam units)**	Use zone-level sensible cooling to allow for sensible-driven space air change rates to be reduced.	A	Base	-	Y	Y	Y	Y	Reduce supply and exhaust fan energy. Reduce heating and cooling energy. Potential to take diversity credit when sizing AHU's and main distribution ducts and shafts.		Energy Conservation		H27
H28	**VAV Fume Hood Control - Face Velocity Reduction**	Use hood-mounted or lab space occupancy sensors to control modes for fume hood face velocity. When unoccupied for a period of time, hood airflow is reduced without adjusting sash.	A	%	-	Y	Y	Y	Y	Increase VAV fume hood energy savings. System can respond quickly when occupants return. Data from Labs21 participants suggests that occupants are at hood only 5-15% of the time, though often don't close sash during business hours.	Hood-mounted sensors provide localized control. Some users feel uncomfortable with face velocities being reduced to 60 fpm when in the space. Whole-space occupancy sensors do not provide as much turn-down of hoods due to need for zero occupancy to change operational modes.	Energy Conservation		H28
H29	**VAV Fume Hood Control - Auto Sash**	Use auto-sash positioning system for VAV fume hoods. Sash is automatically closed when hood zone is unoccupied. Talk about with Faculty to decide if this is needed. Interested to see how this works later in the life of the building.	S	$267,000	-	Y	-	Y	Y	Reduce fume hood exhaust rate and in turn the exhaust and supply fan energy, and heating and cooling of make-up air. Data from Labs21 Conference 2007 suggests occupants at hood only 5-15% of the time.	Added controls, but not prohibitive. Users perceive risk of sash closing on experiments in hood. However, the light beam below the sash is used to prevent such an occurrence. Campus decision, may not provide savings. A lot of maintenance. Decide later.	Energy Conservation		H29
H30	**VAV Exhaust System - Fan Staging**	Use staging of exhaust fans in response to reduced VAV hood airflow. Exhaust stack exit velocity will remain constant.	A	Base	Y	Y	Y	Y	Y	Reduce exhaust fan energy, (less impactful with item H-31)	Added controls are required.	Energy Conservation		H30
H31	**VAV Exhaust System - Variable Velocity**	Use VFD fans to reduce exhaust stack airflow when VAV hood airflow is reduced. Wind tunnel testing will be used to identify minimum exit velocities allowable.	A	Base	Y	Y	Y	Y	Y	Reduce exhaust fan energy, avoiding constant BHP operation as is typically considered. Wind tunnel testing is often recommended for lab buildings so additional cost/effort is minimal.	Added controls are required if minimum allowable exit velocity is deemed dynamic, meaning that it is based on monitored wind direction and speed.	Energy Conservation		H31
H32	**VAV Exhaust System - Variable Discharge Diameter**	Use varying diameter exhaust stack discharge in order to maintain required velocity at reduced airflow rate.	S	$100,000	-	-	-	-	Y	Reduce exhaust fan energy, avoiding constant BHP operation as is typically considered. Wind tunnel testing is often recommended for lab buildings so additional cost/effort is minimal.	Added controls are required if minimum allowable exit velocity is deemed dynamic, meaning that it is based on monitored wind direction and speed. Though exit velocity is constant, exit mass/momentum is reduced so plume rise height needs to be evaluated. Static pressure due to varying diameter orifice may reduce savings. Maintenance concerns, campus to provide feedback. Prefer variable velocities.	Energy Conservation		H32
H33	**VAV Exhaust System - Wind Responsive Stack Velocity Control**	Reduce exhaust stack exit velocity based on active sensing of wind conditions - direction, velocity, etc.	S	$50,000	-	Y	-	Y	Y	Most preferred.	Requires Anemometer and appropriate location.	Energy Conservation		H33
H34	**Process Chilled Water Loop (PCHW)**	Use a PCHW loop to provide cooling to various types of terminal devices and research equipment. Temperature would likely be in the range of 57-63F depending on heat-rejecting components.	A	Base	Y	Y	Y	Y	Y	Flexibility for future load growth. Potential for using non-purchased chilled water sources (i.e. heat recovery chiller, water-side economizer, etc.). Reduction in air-side system size/capacity needed.	Added system and controls. Potential first cost increase. All equipment may not be water-cooled. Requires a different system in the winter.	Energy Conservation, Flexibility		H34
H35	**Low-Temperature Heating Hot Water (HHW)** This is tied to geothermal. If the project cannot accept 120-130F, then geothermal does not make sense. This will only work with Geothermal.	Use lower than typical -temperature hot water for use in space and air heating. Supply temperature likely 120-130F, though as low as 105F is feasible. Connected with other strategies. Campus wants to be sure we are considering the future when we have a different method for heating energy. Want to avoid large conversion costs for the future.	S	$794,523	-	-	Y	-	Y	Allows for use of high-efficiency condensing boilers, heat recovery chillers and solar collectors to generate HHW at higher levels of efficiency as compared to boilers producing 180F. Low-temp HHW can be used for preheat, reheat, fin tube or radiant systems. Reduced piping losses with lower temperature.	May be an Increase in pumping energy depending on HHW delta T and coil selections. Not used if using campus steam. Heat recovery chiller used year round. There is a significant cost concern.	Energy Conservation		H35
H36	**Geothermal**	What is the expectation of the campus, study full building scope, vs partial load scope. Full building will require too much land. What does 100% look like. Then maybe two other levels of study. Doug to review the current capacity of the plant. Coordinate our study with the max capacity of the plant so that a plant renovation is not needed.	S	$7,500,000	-	-	Y	-	Y		Full system will require too much land (assumed). There are previous studies. Other studies show granite around 175 ft, so drilling cost may be high.	Energy Conservation, Carbon Benefits		H36

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ELECTRICAL														
E1	**LED Lamps for General Illumination, Task Lights, Outdoor Steplights, and Exit Signs**	Use low-energy and long life light-emitting diode (LED) lamp for light fixtures and exit signs	A	Base	Y	Y	Y	Y	Y	Long lamp life, energy efficient, lower operating cost. Lighting of interior areas shall utilize LED light sources. LED lights also be tunable to color temp/circadian lighting	Some challenges in animal holding spaces.	Energy Conservation		E1
E2	**Task-Oriented Lighting**	Reduce the ambient lighting levels and strategically locate fixtures for task-oriented lighting layout.	S	%	-	Y	Y	Y	Y	Lowers energy consumption. Per the DFD Daylighting Standards for State Facilities guidelines, low-wattage task lighting shall be an essential component of the lighting design.	Some areas may end up with low illumination levels. It may be difficult to get a client to commit to a task light system, especially one that integrates into the furniture.	Energy Conservation		E2
E3	**Circuiting of Fixtures to Allow for Increased Flexibility/Control Dual level switching**	Provide appropriate circuiting to accommodate the use of daylight and occupancy sensors, as well as flexible occupant control.	A	Base	Y	Y	Y	Y	Y	Increase likelihood of reduced electricity consumption due to electrical lighting.	Increased cost and complexity.	Energy Conservation		E3
E4	**Full Cut-off Light Distribution for Outdoor Luminaries**	Use light fixtures with light distribution that is directed completely downward to eliminate uplight pollution to the environment and neighborhood.	A	Base	Y	Y	Y	Y	Y	Eliminate glare and uplight. Reduced light source pollution. Outdoor lighting system design shall utilize full cutoff type luminaires which minimize the amount of source lumens which are emitted above the horizontal plane of the luminaire and which minimize light spill onto adjacent facilities.	None	Light-Pollution Reduction		E4
E5	**277 Volt xx Room Lighting**	Use 277-volt electrical power for room lighting in lieu of 120-volt. Campus does this already	A	Base	Y	Y	Y	Y	Y	Put more light fixtures on same 20-amp branch circuit breaker: lower first cost and operational cost.	Campus may have a preference. 277 is cheaper to install, DFDM has done this often, but with LED the 277 is not as common.	Construction Material Conservation		E5
E6	**Occupancy Sensors for Lighting Control**	Use occupancy sensors to automatically turn off lights when room is not occupied.	A	Base	Y	Y	Y	Y	Y	Lowers energy consumption.	Slightly increase heating load and slight decrease of lamp life.	Energy Conservation		E6
E7	**Electric Meters to Various Types of Loads**	Provide individual electric meters for various loads such as lighting loads, chiller loads, office-admin power outlets, and patient-care related power outlets. Team will suggest meter locations. Less about payback and more about troubleshooting.	S	%	-	Y	Y	Y	Y	Permit individual metering of various loads for measurement and verification. Allows for expedient diagnostic investigation of electrical load anomalies.	Higher first cost	Energy Conservation		E7
E8	**Power Factor Correction**	Use capacitors to improve the electrical system power factor to near 100 per cent. Campus does not have this yet in any buildings. Doug S. to review with DFDM. This is worth looking at.	S	$250,000	-	-	-	Y	Y	Lowers the electric system losses by reducing the total amperes of the loads. Lowers the electric bill due to reduced demand power KVA.	Higher first cost. Requires space and ventilation for equipment.	Energy Conservation		E8
E9	**Right-sizing' of Transformers and Switchgears**	Size the transformers and switchgears based on demand load database of the present (or benchmark) consumption and include demand factors for new equipment.	A	Base	Y	Y	Y	Y	Y	Lower first cost. Lower energy consumption.	Lower spare capacity. Would need additional equipment to serve new large loads.	Energy Conservation		E9
E10	**Programmable Relay Panels for Lighting Circuits**	Use programmable lighting relay panels to automatically turn OFF and ON lighting circuits. Campus to provide input on the lighting controls.	S	$158,905	-	-	-	Y	Y	Lowers energy consumption.	Higher first cost.	Energy Conservation		E10
E11	**Daylight Dimming**	Provide daylight dimming and control systems for perimeter rooms. Small individual spaces up to 250square feet would wall mount occupancy sensor with built-in photosensor to turn off lights due to sufficient daylight. Use ceiling mount photosensors for perimeter open spaces larger than 250 square feet. Team to follow Ashrae (from the sustainability guidelines), not IECC.	A	Base	Y	Y	Y	Y	Y	Reduced lighting load in certain areas of building during specific times of the day. Adapts best to large, open spaces. Daylighting/photo sensors shall be used to provide continuous dimming of lighting in day lit areas.	Very high first cost for sensors, wiring, and programming.	Energy Conservation		E11
E12	**Liquid-filled Transformers**	Use liquid-filled transformers in lieu of dry-type transformers. Being used more in DFDM Projects. Campus is fine with this strategy.	A	%	-	Y	Y	Y	Y	Low energy losses, longer life. Liquid filled is becoming more standard.	Slightly higher cost. Could require higher fire-rating of walls to 2 hours and containment curbs for liquid spill.	Energy Conservation		E12
E13	**Reduced Lighting Power Densities per space type**	Codes keep lowering these rates, so it is harder to make significant differences for Code. Tony will talk with the team about strategies to keep the densities as low as possible.	A	%	-	Y	Y	Y	Y	significantly further LPD reductions possible than code allowance; The project team is reviewing the following targets: Laboratory average 50 fc, 1 W/sf, Open office .85 W/sf, Private office 1 W/sf, Conference lighting 50 fc, 1.15 - 1.35 W/sf	Campus to provide input.	Energy Conservation		E13
E14	**Digital Timer Switches**	Consider digital timer switches for storage areas, closets, and rooms too small for occupancy sensors. Campus wants to make these times shorter.	A	Base	Y	Y	Y	Y	Y	Energy Savings, prevents lights being left on indefinitely.	Limited Use.	Energy Conservation		E14
E15	**Vacancy Sensors**	Vacancy sensors shall be used as much as practical. Vacancy sensors require the occupant to turn the lights ON manually. Vacancy sensors shall typically be used for required automatic light shut-off control instead of central time-clock control or central energy-management system control. Consider their use in all classrooms, conference rooms, open office spaces, individual offices, and corridors.	A	Base	Y	Y	Y	Y	Y	Significant energy savings	Occupancy sensors shall still be used in spaces where vacancy sensors would create unsafe environments such as restrooms and stairwells.	Energy Conservation		E15

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Programming														
P1	**Sustainable programming**	Similar space types grouped together to provide efficiencies in Mechanical system; Review blocking and stacking options for opportunities to optimize energy through adjacencies	A	Base	Y	Y	Y	Y	Y	Adjacencies enable a) cascading air, b) equipment sharing and plug load reduction, c) other potential efficiencies. Review programming options with mechanical design team, discuss with key User groups	No downside to considering opportunities during programming and planning phase; must be considered in conjunction with other needs for the facility (collaboration, etc.)	Energy Conservation, Space savings		P1
P2	**Thermal Programming for solar gain**	Layout the building such that spaces that create large internal heat loads do not coincide with the largest external solar heat gains. This is meant to reduce the peak loads for the mechanical system and help it to operate more smoothly. Depending in Climate Zone, locate high ventilation (high ACH) spaces adjacent to window wall on South or West facing elevations for passive solar heat (cold climate) or reheat (humid climate); place high ACH spaces inboard, away from window wall in cold climates, particularly with majority overcast conditions to avoid heat loss	A	Base	Y	Y	Y	Y	Y	spatial organization of program can have a significant impact on loads in high ventilation building types at little to no impact on construction costs	Must be balanced with other programmatic needs for views, daylight and adjacencies.	Energy Conservation, Mechanical equipment life		P2
P3	**Active Design**	Active Stairs, fitness resources or spaces; showers and changing rooms	A	Base	Y	Y	Y	Y	Y	20 minutes of physical activity a day increases cognitive function; open circulation encourages casual encounters and collaboration	no direct payback in energy; H&W strategy	Wellness		P3
P4	**Wellness spaces & amenities: Lactation Room, Wellness Room, All Gender Restroom**	Lactation rooms, wellness rooms; healthy food vending; rooftop or terrace productive gardens; hydration stations	A	Base	Y	Y	Y	Y	Y	equitable design; promotes diversity, encourages health and wellness	no direct payback in energy; H&W strategy	Wellness, Equality		P4
P5	**Biophilic Design**	Green wall or other living media, representations of nature (colors, patterns, textures, materials)	A	Base	Y	Y	Y	Y	Y	opportunity for passive humidification; increased wellbeing; green wall in break areas or atrium draws people and fosters connectivity and collaboration	cost, maintenance considerations for living systems; other biophilic design strategies have no cost impact.	Wellness		P5
P6	**Designing for Views**	Prioritize the location of areas of highest use, such as common or shared areas and open workspaces, at available exterior glazing. Locate common spaces such that at least 70% of all seating is within 16 feet of transparent glazing with views to the exterior.	A	Base	Y	Y	Y	Y	Y	Capture the documented health benefits of views to the exterior		Wellness		P6
P7	**Designing for Daylighting**	Provide daylighting: occupied spaces shall meet minimum criteria to ensure equitable access to daylight. Transparent envelope glazing is no less than 7% of the floor area for each floor level.	A	Base	Y	Y	Y	Y	Y	Capture the documented health benefits of providing daylighting to building inhabitants.		Wellness, Energy savings		P7
Materials														
M1	**Demolition of existing buildings**	Repurpose and recycle building materials and resources	A	Base	Y	Y	Y	Y	Y	Required by DFDM		Reduce Landfill		M1
M2	**Embodied Carbon Optimization**	LCA to optimize embodied carbon; Team will need the carbon numbers for the campus utilities.	A	%	-	Y	Y	Y	Y	may reduce embodied carbon through structural mass timber, grid optimization and material quality reduction, cement replacement, carbon sequestering concrete or aggregate, etc.	potential cost impacts, lead time	Carbon Reduction		M2
M3	**Products with EPD's**	Specify a minimum number of products with Environmental Product Declarations	A	Base	Y	Y	Y	Y	Y	Provides accountability for product ingredients, promotes transparency and reinforces removal of ingredients with potential negative health benefits		Wellness, Awareness		M3
M4	**High Recycled Content**	Specify products with higher recycled content	A	Base	Y	Y	Y	Y	Y	Decreases use of products with virgin material		Material Utilization		M4
M5	**Construction waste recycling**	Contractor to recycling construction waste through the construction period.	A	Base	Y	Y	Y	Y	Y	Required by DFDM. Reduces landfill and promotes recycling.		Reduce Landfill		M5

	PROPOSED BUNDLE STRATEGY (PRELIMINARY) - COST ESTIMATE (2023 bid opening)							NOTES			
B1	**BASE = DFD SUSTAINABILITY v2 (REQUIRED)**	Represents base measures included in a typical DFD project as outlined by the DFD Sustainability Guidelines.	INCL					**Bundle B1** is included in the construction cost estimate			
B2	**B1 + 3% ALLOWANCE**	Represents the Base measures, plus additional measures included under the sustainability allowance for the project		$4.1M				**Bundle B2** has the estimated cost shown, and can be included in the Project under the sustainability allowance (3% of 10% design progression allowance)			
B3	**B1 + 3% ALLOWANCE, PLUS HYBRID GEOTHERMAL**	Represents measures in the Base and the sustainability allowance, plus the addition of the geothermal system and the credits that would optimize it.			$13.3M			**Bundle B3** has the estimated cost shown, and requires $9.2M increase in sustainability allowance, and offset of equal amount in other budgeted amounts.			
B4	**B1 + INCREAED % ALLOWANCE, (NO GEOTHERMAL)**	Represents measures in the Base and the sustainability allowance, plus an aggressive approach that does not include the Geothermal system, but focuses on other energy use reduction strategies.				$10.3M		**Bundle B4** has the estimated cost shown, and requires $6.2M increase in sustainability allowance, and offset of equal amount in other budgeted amounts.			
B5	**B1 + BEST (INCL HYBRID GEOTHERMAL)**	The package that would include the majority of the measures (including Geothermal) and would provide the most efficient solution.					$22.8M	**Bundle B5** has the estimated cost shown, and requires $18.7M increase in sustainability allowance, and offset of equal amount in other budgeted amounts.			

UW – Eau Claire

Pre-assessment study of Energy Conservation Measures

AEI Project No. 20834-00

Scope Description:

To meet aspirational sustainability targets of the University, the design team worked together to establish a list of Energy Conservation Measures (ECM's) that would be worthy of studying. We have narrowed down the list to cover only the items that make sense to evaluate in this pre-design phase i.e., those systems that have major building/space or budget impacts that need to be understood before moving into preliminary design.

Goal:

To do a pre-assessment of the following systems, weigh the pro's and con's with campus/DFD, and assist in the decision to possibly advance them into the scope and budget of the pre-design report. The building and its systems will not be defined to the point where any meaningful energy model can be done to prove these systems, so this work will be more descriptive and less numerical using basic comparative calculations and/or evaluation methods.

ECM's analyzed:

Pre-assessment studies, identified from the master ECM list, to be studied:

1. **B15:** Reduce/Moderate Floor to Ceiling Height
2. **S1:** Rooftop Rainwater Collection & Reuse
3. **H29:** VAV Fume Hood Control - Auto Sash
4. **H13:** Independent vs Combined Laboratory Exhaust Systems
5. **H26:** Reduced Minimum ACH - Dynamic Ventilation (Aircuity)
6. **H36:** Geothermal
7. **E8:** Power Factor Correction
8. **E10:** Programmable Relay Panels for Lighting Circuit

Building Assumptions:

Figure 1 – Proposed Building Shape and Orientation

Building area:

1st floor:	65,000 sf
Typical floor (2-5):	55,375 sf
Penthouse/Roof:	45,000 sf
Total building area:	**331,500** sf (189,000 ASF using 57% efficiency)

B15: Reduce/Moderate Floor to Ceiling Height

Laboratory buildings necessarily require floor-to-floor heights to accommodate larger ducts and complex mechanical systems. This ECM looks to balance occupied space ceiling heights and minimum floor-to-ceiling height, without compressing above-ceiling MEP space that leads to congested ceilings with higher pressure drop (energy use) systems and decreased flexibility to add/remodel systems in the future.

Advantages:

- Reduced volume of air required for ACH
- For example going from 8' to 10' ceiling can add as much as 20-30% to air volume that must be exhausted, conditioned and reintroduced to the space
- Less building volume reduces the amount of building material for exterior and interior walls
- Less building perimeter surface area reduces heat gains and losses, though this is very minor compared to ACH energy differences

Disadvantages:

- Lower floor to ceiling height may reduce daylight penetration and feel oppressive
- Consider coordinating mechanical systems so that ceiling can step up or slop up at the perimeter to allow more light to penetrate deeper into the floor plate. Borrow daylight from interior atria and glazed interior walls, sidelights, clearstories, etc.

Figure 2: Reduce Floor to Ceiling Height vs Ductwork Air Velocity

Assumptions:
Labs = 300,000 cfm
Office = 50,000 cfm
Vivarium = 17,000 cfm
Total airflow requirement = 367,000 cfm

Based on the BOD, minimum ventilation requirement for teaching and research laboratory is 6 ach occupied and 4 ach unoccupied. Based on early discussions on room heights the floor-to-ceiling height in the lab is assumed to be 10'. This means that 1' of lab volume requires 30,000 cfm. Using 6" pressure drop and 65% fan efficiency, based on ASHRAE 90.1-2013 the closest fan motor should have a maximum of 43.6 bhp (34.4 kW). This translates to *0.001146 kW/cfm. (* Please, note that this calculation doesn't assume varying pressure drop at lower airflow).

Typically, labs are required to operate 24/7/365 days per year. By assuming a typical week as per Labs21 here is the anticipated fan use:

Type	Schedule		Airflow (cfm)		Fan Use (kW)	
	Hour	Time	Weekday	Weekend	Weekday	Weekend
Laboratory - Typical	1	(12-1 am)	20,000	20,000	22.9	22.9
	2	(1-2 am)	20,000	20,000	22.9	22.9
	3	(2-3 am)	20,000	20,000	22.9	22.9
	4	(3-4 am)	20,000	20,000	22.9	22.9
	5	(4-5 am)	20,000	20,000	22.9	22.9
	6	(5-6 am)	20,000	20,000	22.9	22.9
	7	(6-7 am)	20,000	20,000	22.9	22.9
	8	(7-8 am)	30,000	30,000	34.4	34.4
	9	(8-9 am)	30,000	30,000	34.4	34.4
	10	(9-10 am)	30,000	30,000	34.4	34.4
	11	(10-11 am)	30,000	30,000	34.4	34.4
	12	(11-12 pm)	30,000	30,000	34.4	34.4
	13	(12-1 pm)	30,000	30,000	34.4	34.4
	14	(1-2 pm)	30,000	30,000	34.4	34.4
	15	(2-3 pm)	30,000	30,000	34.4	34.4
	16	(3-4 pm)	30,000	30,000	34.4	34.4
	17	(4-5 pm)	30,000	30,000	34.4	34.4
	18	(5-6 pm)	30,000	30,000	34.4	34.4
	19	(6-7 pm)	30,000	20,000	34.4	22.9
	20	(7-8 pm)	30,000	20,000	34.4	22.9
	21	(8-9 pm)	30,000	20,000	34.4	22.9
	22	(9-10 pm)	30,000	20,000	34.4	22.9
	23	(10-11 pm)	20,000	20,000	22.9	22.9
	24	(11-12 am)	20,000	20,000	22.9	22.9

For a 1' decrease in floor height and based on the table above, the weekly fan energy savings is estimated to be 4,962.2 kWh/week. Assuming 52 weeks, this results in 258,033 kWh per year. By applying the average cost of electricity of $0.1/kWh (Eau-Claire average for commercial buildings) this represents $25,803 cost savings for one fan (i.e., supply fan). For the exhaust fan, due to lower static pressure, we assume 50% cost savings of the supply fan. This means that the overall fan power (i.e., supply and exhaust) cost savings represent $38,705 per each year for 1' of lab volume.

The total cost savings are represented by annual mechanical cost and first cost construction savings. Measured perimeter of the building is 1,115' which equals to 1,115 sf for the 1' construction height. By using the construction average of $50/sf of wall this translates to *$55,750 of saved construction cost for each 1' of wall height (* This is cost is higher if interior buildout is added).

S1: Rooftop Rainwater Collection & Reuse (Norbert, Sarah/Ryan)

Capture, store and treat rooftop rainfall to be used for the indirect evaporative cooling portion of the HVAC's enhanced run around loop and for supply site irrigation. Typically, irrigation is available on all building sites.

Advantages:

- Reduces potable water make up for building and/or site uses that do not require potable quality
- Relatively clean water source that minimizes need for extensive treatment
- Provides free source of water in climates with rising utility rates

Disadvantages:

- Requires substantial space for storage to capture large infrequent rain events
- Requires treatment system
- Current water rates challenge system economics

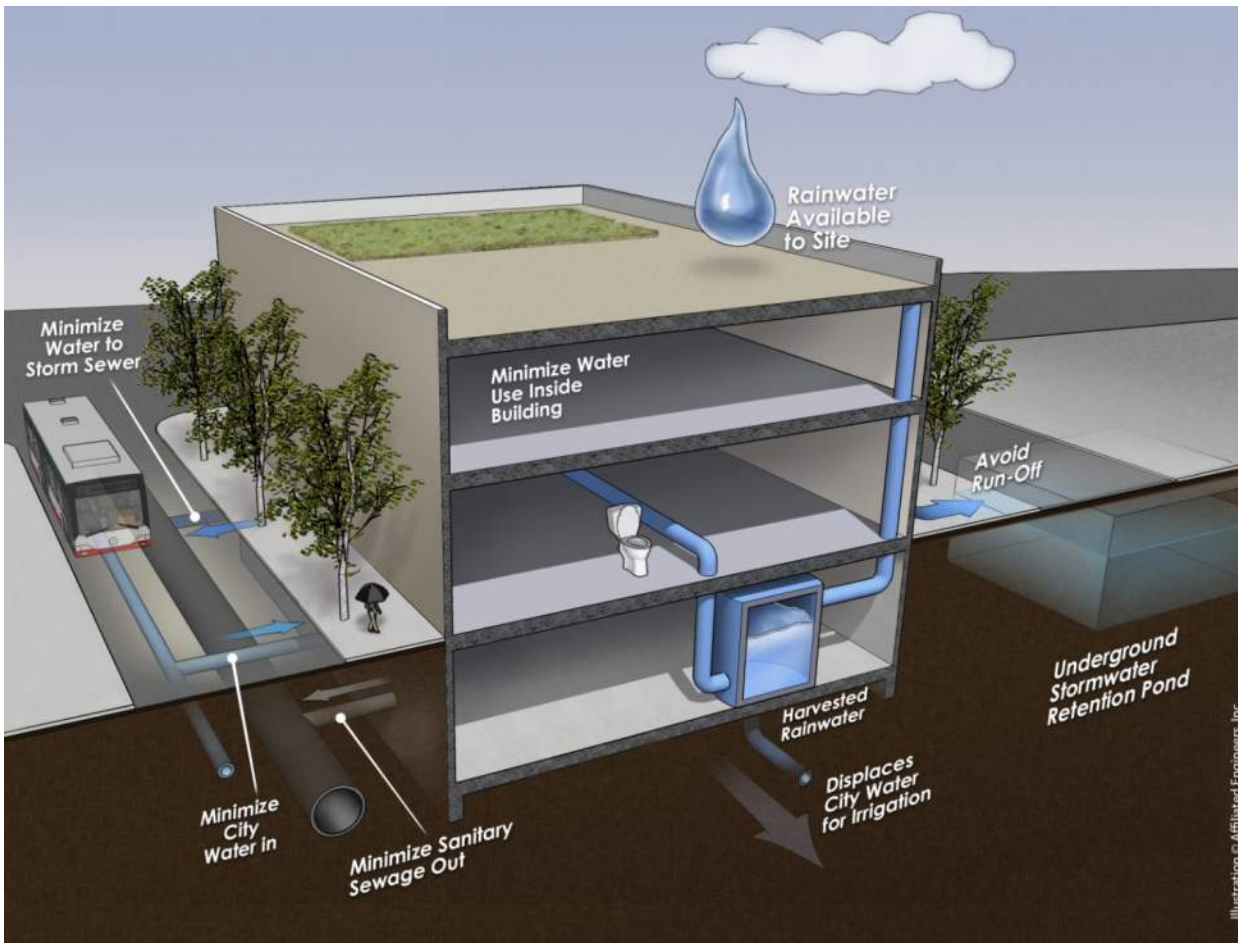


Figure 3: Rainwater Collection and Reuse

Using the 30-year monthly average rainfall data for La Crosse / Eau Claire the total annual rainfall is 32.5 in/year (see table below).

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
1.2	1	2	3.4	3.4	4	4.3	4.3	3.4	2.2	2.1	1.2	**32.5**

Table 1: Monthly Rainfall Data for Eau-Claire / La Crosse

Based on the total roof area of 45,000 sf and the total annual rainfall amount the volume of water captured represents 911,688 gallons per year.

We can estimate water cost savings by applying the city of Eau Claire's water rates (used the latest 2021-Water-Rate Sheet). The following structure was used:

- Water rate for non-residential customer (rate bracket: First 25 CCF Monthly or 75 CCF Quarterly):
  $1.70 per CCF (note: 1 CCF = 100 CF = 748 gallons)
- Storm water charge for non-residential customer:
  $24.25 quarterly or $97 annually per 1 ERU (1 equivalent Runoff Unit (ERU) = 3,000 sf)

By capturing 911,688 gallons the estimated cost savings are:

- Water savings represent $2,072 per year
- Storm water savings represent $1,455 per year

  Total water cost savings represent $3,527 per year

The cost of equipment to collect rainwater including piping, tank, water treatment is $150,000. Based on the above the estimated return on investment is 43 years.

H29: VAV Fume Hood Control - Auto Sash

Use auto-sash positioning system for VAV fume hoods. Sash is automatically closed when hood zone is unoccupied.

Advantages:

- Reduces fume hood exhaust rate, and in turn, reduces the heating and cooling of make-up air, plus reductions in supply and exhaust fan energy.
- Data from Labs21 Conference 2007 suggests occupants at hood only close the hood in 5-15% of the time.

Disadvantages:

- Added controls
- Users perceive risk of sash closing on experiments in hood, however, the light beam below the sash is used to prevent such occurrence
- With proximity sensors, may not provide that much savings
- Requires maintenance

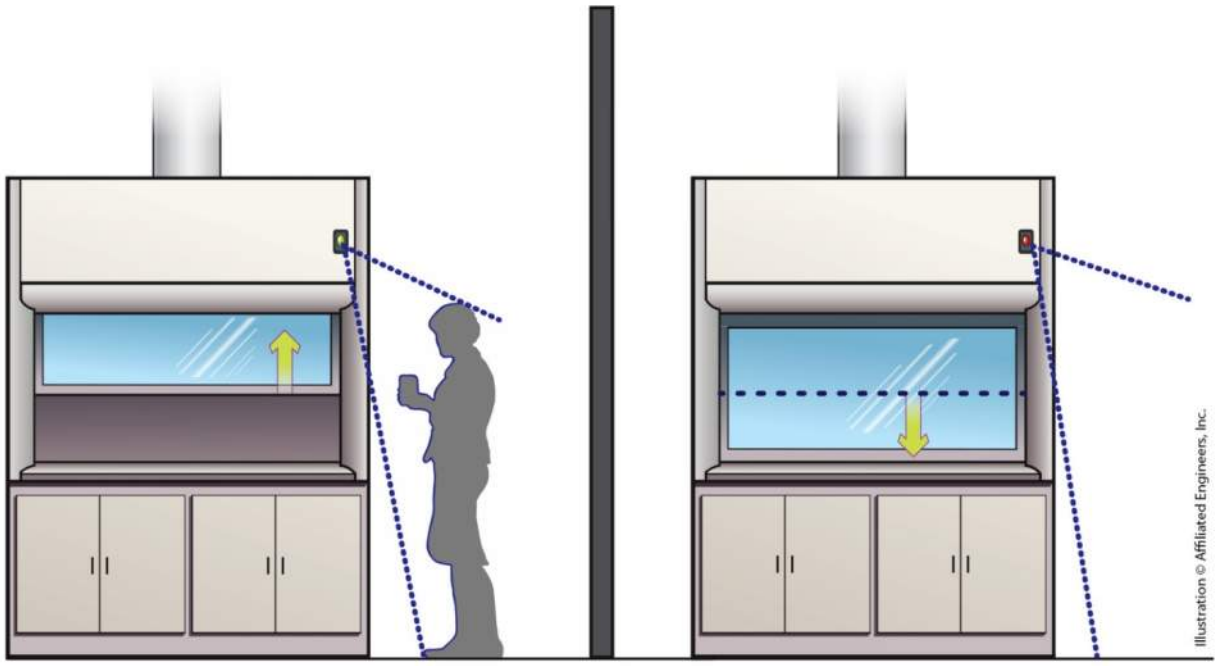


Figure 4: Fume Hood Auto Sash

Assumptions:
Peak fume hood exhaust = 54,735 cfm (assuming 89 fume hoods at 615 cfm each)

In general fume hood velocity ranges between 60 fpm and 100 fpm. Typically, 100 fpm velocity is maintained when the fume hood is used. If an occupancy sensor is used this does lower the velocity when no occupant is present in front of the fume hood. If velocity is lowered to 60 fpm this represents 40% lower airflow through the fume hood. If the fume hood at peak operation at 100 fpm uses 55,000 fpm at 60 fpm the air velocity across the face of the fume hood will be 32,841 cfm. While this presents substantial energy savings, when auto sash is used even more energy savings can be achieved. When lowering the sash, 60 fpm is maintained across the net opening of the fume hood. Based on ANSI/AIHA Z9.5-2012 Laboratory Ventilation, the reduced airflow when sash is lowered is approximately 30% of the design airflow. This results in 185 cfm per fume hood with auto-sash lowered.

Using 4" pressure drop and 65% fan efficiency, based on ASHRAE 90.1-2013 the fan motor for 54,735 cfm should have a maximum of 53.0 bhp (41.6 kW). This translates to *0.00076 kW/cfm. (* Please, note that

this calculation doesn't assume varying pressure drop at lower airflow). Using the ASHRAE 90.1 schedule the two options are as follows:

Type	Schedule		FH with Occupancy Sensors				FH with Auto-sash			
			Airflow (cfm)		Fan Use (kW)		Airflow (cfm)		Fan Use (kW)	
	Hour	Time	Weekday	Weekend	Weekday	Weekend	Weekday	Weekend	Weekday	Weekend
Laboratory - Typical	1	(12-1 am)	32,841	32,841	25.0	25.0	16,421	16,421	12.5	12.5
	2	(1-2 am)	32,841	32,841	25.0	25.0	16,421	16,421	12.5	12.5
	3	(2-3 am)	32,841	32,841	25.0	25.0	16,421	16,421	12.5	12.5
	4	(3-4 am)	32,841	32,841	25.0	25.0	16,421	16,421	12.5	12.5
	5	(4-5 am)	32,841	32,841	25.0	25.0	16,421	16,421	12.5	12.5
	6	(5-6 am)	32,841	32,841	25.0	25.0	16,421	16,421	12.5	12.5
	7	(6-7 am)	32,841	32,841	25.0	25.0	16,421	16,421	12.5	12.5
	8	(7-8 am)	54,735	54,735	41.6	41.6	54,735	54,735	41.6	41.6
	9	(8-9 am)	54,735	54,735	41.6	41.6	54,735	54,735	41.6	41.6
	10	(9-10 am)	54,735	54,735	41.6	41.6	54,735	54,735	41.6	41.6
	11	(10-11 am)	54,735	54,735	41.6	41.6	54,735	54,735	41.6	41.6
	12	(11-12 pm)	54,735	54,735	41.6	41.6	54,735	54,735	41.6	41.6
	13	(12-1 pm)	32,841	32,841	41.6	41.6	16,421	16,421	41.6	41.6
	14	(1-2 pm)	32,841	32,841	41.6	41.6	16,421	16,421	41.6	41.6
	15	(2-3 pm)	54,735	54,735	41.6	41.6	54,735	54,735	41.6	41.6
	16	(3-4 pm)	54,735	54,735	41.6	41.6	54,735	54,735	41.6	41.6
	17	(4-5 pm)	54,735	54,735	41.6	41.6	54,735	54,735	41.6	41.6
	18	(5-6 pm)	54,735	54,735	41.6	41.6	54,735	54,735	41.6	41.6
	19	(6-7 pm)	54,735	32,841	41.6	25.0	54,735	16,421	41.6	12.5
	20	(7-8 pm)	54,735	32,841	41.6	25.0	54,735	16,421	41.6	12.5
	21	(8-9 pm)	54,735	32,841	41.6	25.0	54,735	16,421	41.6	12.5
	22	(9-10 pm)	54,735	32,841	41.6	25.0	54,735	16,421	41.6	12.5
	23	(10-11 pm)	32,841	32,841	25.0	25.0	16,421	16,421	12.5	12.5
	24	(11-12 am)	32,841	32,841	25.0	25.0	16,421	16,421	12.5	12.5

Based on the results shown in the table above, the weekly fan energy use is estimated to be 5,574 kWh/week when using occupancy sensors and 4,513 kWh/week when using auto-sash. Assuming 52 weeks, this results in 289,859 kWh/tear when using occ. sensors per year vs 234,699 kWh/year when using auto-sash. By applying the average cost of electricity of $0.1/kWh (Eau-Claire average for commercial buildings) this represents $28,986 fan use cost with occ. sensors and $23,470 fan use cost with auto-sash. This represents $5,516 cost savings per year when using auto-sash.

This option also saves heating and cooling energy. By using the average design airflows with occupancy sensor vs auto-sash the airflow difference is 8,308 cfm. By applying energy cost savings from a similar project using verified performance a unit MMBtu/cfm is established i.e., a heating unit of 0.12 MMBtu/cfm and cooling unit of 0.0034 MMBtu/cfm. By applying average price for Btu of heating energy of $14.71 per MMBtu (assuming 80% heat conversion) and cooling energy of $16.12 per MMBtu (assuming an average COP of 2.0), the cost of saved heating and cooling energy is $15,658 per year.

Assuming one FH auto-sash costs $3,000 this translates into $267,000. The summary of total energy cost savings is $21,174 per year. This results in a payback period of 12.6 years.

H13: Independent vs Combined Laboratory Exhaust Systems

With combined laboratory exhaust, the general lab exhaust is tied together with the fume hood exhaust. The mixed stream is contaminated by fume exhaust which only allows non-contact heat recovery methods, like a run-around loop. It does not allow the use of more energy efficient heat recovery, like total energy wheels. Run-around loops have an average efficiency of 50% of sensible heat only. Total energy wheels have efficiencies up to 75% and recover both sensible and latent energy. Separating the exhaust into independent streams of general lab and fume exhaust allows use of wheels on the general lab exhaust stream. The fume hood exhaust would still use run-around.

Advantages:

- Yields substantial energy savings in laboratories with large air change rates
- Yields substantial energy savings in laboratories where fume exhaust is a smaller percentage of overall lab exhaust
- Airstreams are separated and can be controlled more efficiently

Disadvantages:

- More ductwork
- Added controls
- Added price for the heat wheel
- More maintenance due to having more equipment

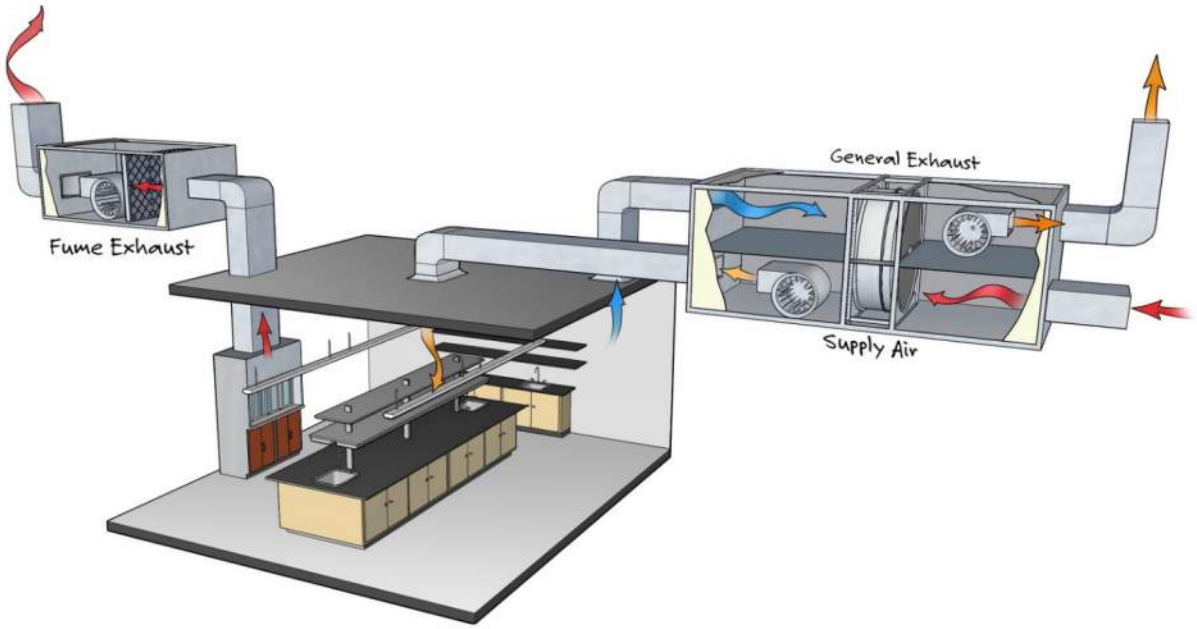


Figure 5: Independent Laboratory Exhaust System

Assumptions:
Fume hood exhaust with snorkels = 100,000 cfm
General laboratory exhaust = 200,000 cfm
Total Laboratory exhaust = 300,000 cfm

A heat-recovery system captures energy from the building exhaust air and uses some of the energy to precondition the make-up air before supplying it to the building. By separating the general lab exhaust from fume exhaust, it can be designed with a heat wheel instead of run-around heat recovery. This allows capture

of sensible (25% over the run-around) and latent heat (75% over run-around as it doesn't capture latent heat), representing a large energy and cost savings for an airflow-driven building such as a laboratory with large air change rate. A simplified psychrometric calculation of the sensible heat recovery (based on dry-bulb temperature) vs total heat recovery (based on enthalpy of moist air) was used together with the efficiency assumptions for a run-around system (50% sensible) vs total heat wheel (75% both sensible and latent) to estimate energy and cost savings.

A typical meteorological year data for Eau Claire was used to calculate the hourly energy use of both systems i.e., run-around vs total heat wheels energy recovery.

A sensible heat-recovery system will transfer sensible (dry-bulb) heat from the exhaust air to the supply air entering the building:
$H = 1.08\ q\ (t_2 - t_1)\ \eta$

Whereas, for total enthalpy heat-recovery systems the heat recovered can be expressed as
$H = 4.5\ q\ (h_2 - h_1)\ \eta$

where
H = heat transferred (Btu/h)
q = quantity of airflow (cfm)
t_1 = air temperature of the exhaust air before the heat recovery unit (°F)
t_2 = air temperature of outside air after the heat recovery unit (°F)

4.5 = (0.075 lbm/ft3) (60 min/h)
h_1 = air enthalpy of the exhaust air before the heat recovery unit (Btu/lb)
h_2 = air enthalpy of outside air after the heat recovery unit (Btu/lb)

By applying an average annual airflow of 250,000 cfm (assuming occupied and unoccupied average) the estimated energy use of is as follows:
Total Energy Recovery (sensible and latent):

- Heating energy captured: 43,288 MMBtu
- Cooling energy captured: 21,644 MMBtu

Run-around energy recovery (sensible only):

- Heating energy captured: 32,357 MMBtu
- Cooling energy captured: 1,359 MMBtu

By applying average price for Btu of heating energy of $14.71 per MMBtu (assuming 80% heat conversion) and cooling energy of $16.12 per MMBtu (assuming an average COP of 2.0), the cost of captured/recovered energy is as follows:
Total Energy Recovery (sensible and latent):

- Cost of heating energy captured: $636,766
- Cost of cooling energy captured: $348,907

Run-around energy recovery (sensible only):

- Cost of heating energy captured: $475,978
- Cost of cooling energy captured: $21,908

Based on the calculation above the additional energy cost savings from using a total energy recovery is $487,787 per year in operating cost. Based on the data from the cost estimator using total energy recovery over run-around heat recovery will add about $100,000 in initial cost. In this case the simplified payback is *0.2 years (*2.5 months).

*Please note that this calculation is simplified, and a more detailed analysis can be obtained from an energy model once the building layout and HVAC design are established.

H26: Reduced Minimum ACH - Dynamic Ventilation (Aircuity)

Use space air sampling/testing technology to evaluate quality of air in the space and allow setback to minimum air change rates when contaminant levels are low. A centralized or distributed sensor approach can be used.

Advantages:

- Reduces supply and exhaust fan energy
- Reduces heating and cooling energy
- Potential to take diversity credit when sizing AHU's and main distribution ducts and shafts

Disadvantages:

- High installed cost of sensors
- Requires regular recalibration of sensors which can be an O&M challenge
- May not be applicable where owner's EH&S staff require high minimum air change rates or do not trust system reliability
- Requires high maintenance

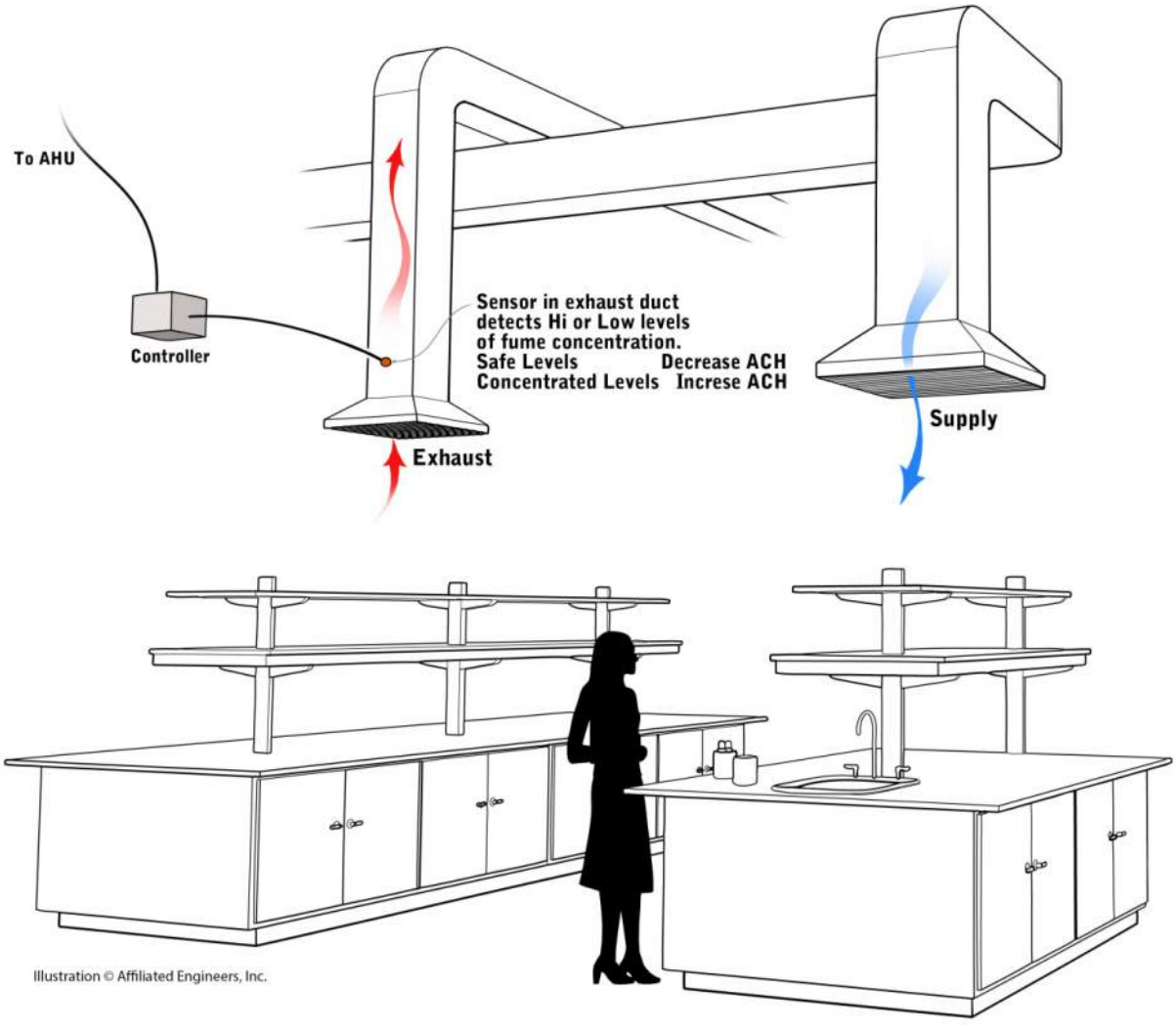


Figure 6: Exhaust Air Sensing

Assumptions:

Airflow without Aircuity (as per BOD, 6/4 ach)	**Airflow with Aircuity (assumed at 4/2 ach)**
Labs = 300,000 cfm (6 ach; occupied)	Labs = 200,000 cfm (4 ach; occupied)
Labs = 200,000 cfm (4 ach; unoccupied)	Labs = 100,000 cfm (2 ach; unoccupied)

Based on the BOD, the minimum ventilation requirement for teaching and research laboratories is 6 ach occupied and 4 ach unoccupied. When using dynamic ventilation system that is capable of monitoring chemical concentration in the air, we can lower the prescribed air change rate and still safely operate the lab. From experience on other projects a typical 4 ach (occupied) and 2 ach (unoccupied) air change rate with a dynamic ventilation is assumed (this needs full owner/EH&S buy-in).

Using 6" pressure drop and 65% fan efficiency, based on ASHRAE 90.1-2013 the fan motor should be as follows:

- For a system sized to 300,000 cfm the max. allowed fan motor size is 435.7 bhp (337.9 kW) which translates to 0.001126 kW/cfm
- For a system sized to 200,000 cfm the max. allowed fan motor size is 290.5 bhp (225.2 kW) which translates to 0.001126 kW/cfm

Typically, labs are required to operate 24/7/365 days per year. By assuming a typical week as per Labs21 here is the anticipated fan use for a traditional lab vs. lab with dynamic ventilation (such as Aircuity):

Type	Schedule		Traditional System				System with Dynamic Ventilation			
			Airflow (cfm)		Fan Use (kW)		Airflow (cfm)		Fan Use (kW)	
	Hour	Time	Weekday	Weekend	Weekday	Weekend	Weekday	Weekend	Weekday	Weekend
Laboratory - Typical	1	(12-1 am)	200,000	200,000	225.2	225.2	100,000	100,000	112.6	112.6
	2	(1-2 am)	200,000	200,000	225.2	225.2	100,000	100,000	112.6	112.6
	3	(2-3 am)	200,000	200,000	225.2	225.2	100,000	100,000	112.6	112.6
	4	(3-4 am)	200,000	200,000	225.2	225.2	100,000	100,000	112.6	112.6
	5	(4-5 am)	200,000	200,000	225.2	225.2	100,000	100,000	112.6	112.6
	6	(5-6 am)	200,000	200,000	225.2	225.2	100,000	100,000	112.6	112.6
	7	(6-7 am)	200,000	200,000	225.2	225.2	100,000	100,000	112.6	112.6
	8	(7-8 am)	300,000	300,000	337.8	337.8	200,000	200,000	225.2	225.2
	9	(8-9 am)	300,000	300,000	337.8	337.8	200,000	200,000	225.2	225.2
	10	(9-10 am)	300,000	300,000	337.8	337.8	200,000	200,000	225.2	225.2
	11	(10-11 am)	300,000	300,000	337.8	337.8	200,000	200,000	225.2	225.2
	12	(11-12 pm)	300,000	300,000	337.8	337.8	200,000	200,000	225.2	225.2
	13	(12-1 pm)	300,000	300,000	337.8	337.8	200,000	200,000	225.2	225.2
	14	(1-2 pm)	300,000	300,000	337.8	337.8	200,000	200,000	225.2	225.2
	15	(2-3 pm)	300,000	300,000	337.8	337.8	200,000	200,000	225.2	225.2
	16	(3-4 pm)	300,000	300,000	337.8	337.8	200,000	200,000	225.2	225.2
	17	(4-5 pm)	300,000	300,000	337.8	337.8	200,000	200,000	225.2	225.2
	18	(5-6 pm)	300,000	300,000	337.8	337.8	200,000	200,000	225.2	225.2
	19	(6-7 pm)	300,000	200,000	337.8	225.2	200,000	100,000	225.2	112.6
	20	(7-8 pm)	300,000	200,000	337.8	225.2	200,000	100,000	225.2	112.6
	21	(8-9 pm)	300,000	200,000	337.8	225.2	200,000	100,000	225.2	112.6
	22	(9-10 pm)	300,000	200,000	337.8	225.2	200,000	100,000	225.2	112.6
	23	(10-11 pm)	200,000	200,000	225.2	225.2	100,000	100,000	112.6	112.6
	24	(11-12 am)	200,000	200,000	225.2	225.2	100,000	100,000	112.6	112.6

Based on the results shown in the table above, the weekly fan energy use for a traditional system is estimated to be 48,756 kWh/week vs. 29,839 kWh/week for a system with dynamic ventilation. Assuming 52 weeks, this results in 2,535,302 kWh per year for a traditional system vs. 1,551,628 kWh for a system with dynamic ventilation.

By applying the average cost of electricity of $0.1/kWh (Eau-Claire average for commercial buildings) the cost of operating a traditional system is estimated to be $253,530 per year vs. $155,163 for a system with dynamic ventilation. In this case the estimated cost savings are $98,367 per year per fan. Adding the exhaust fan using 50% of the supply fan cost (due to lower static on the exhaust side) the overall cost savings represent $147,550 per year.

This option also saves heating and cooling energy. By using the average design airflows for traditional system vs system with dynamic ventilation, the airflow difference is 100,000 cfm. By applying energy cost savings from a similar project using verified performance a unit MMBtu/cfm is established i.e., a heating unit of 0.12 MMBtu/cfm and cooling unit of 0.0034 MMBtu/cfm. By applying average price for Btu of heating energy of $14.71 per MMBtu (assuming 80% heat conversion) and cooling energy of $16.12 per MMBtu (assuming an average COP of 2.0), the cost of saved heating and cooling energy is $188,469 per year.

Annual calibration charges per sensor are approximately $8,000 per year, with a building wide rough estimate of $80,000. With the approximate cost of the system being in the range of $900,000 to $1,100,000 the return on investment indicates a payback of *2.7-3.3 years.

*Please note that this calculation is simplified, and a more detailed analysis can be obtained from an energy model once the building layout and HVAC design are established.

H36: Geothermal

While temperature above-ground fluctuates greatly throughout the year, especially in northern US, the ground temperature (10 ft from the surface) only fluctuates a few degrees, usually within 50°F to 60°F. In the summer, the ground temperature is often cooler than above-ground and in the winter, the ground temperature is often warmer. Geothermal heating and cooling systems utilize this relatively constant temperature to condition indoor spaces, by transferring heat from the ground in the winter and rejecting heat into the ground in the summer. This technology is relatively risk-free, weatherproof, maintenance-free and can be very effective at conditioning spaces as a fossil-fuel replacement.

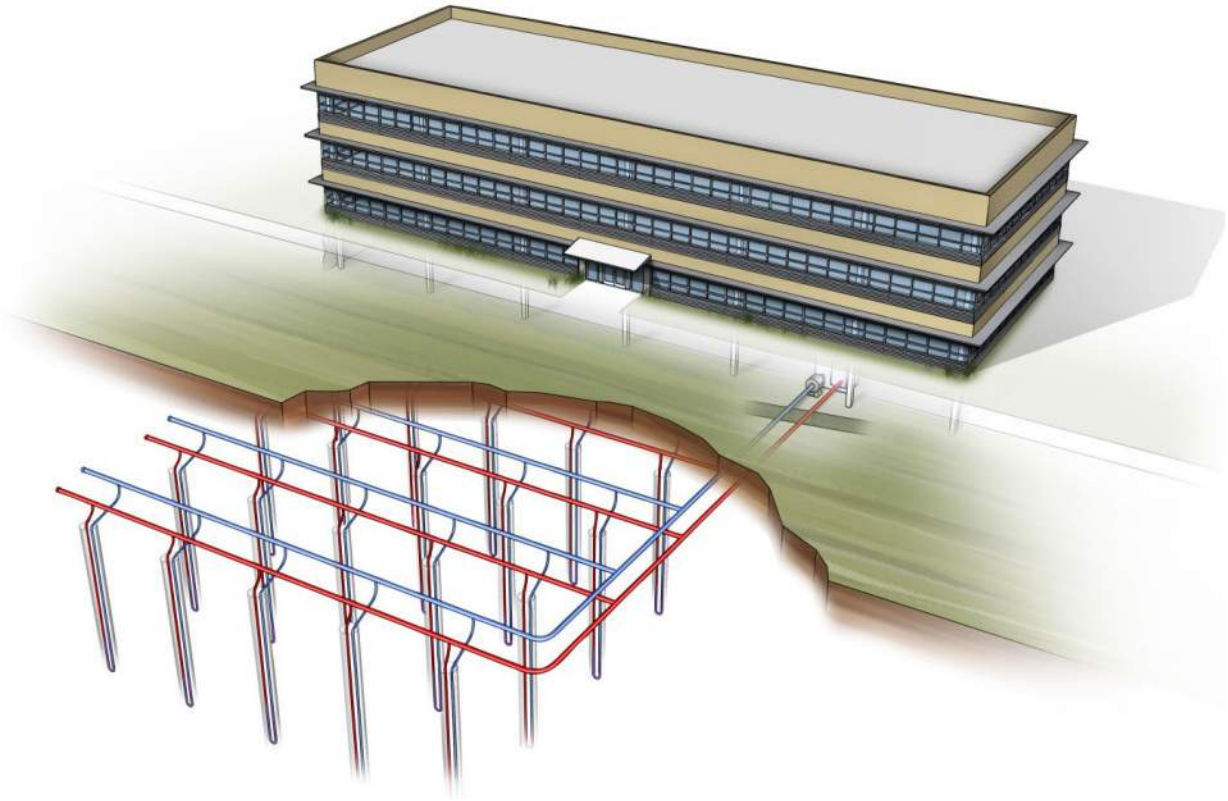


Figure 7: Closed Loop Geothermal Heating and Cooling

A Geothermal heating and cooling system takes advantage of the relatively consistent temperature of the ground throughout the year. Heat is absorbed or rejected to the earth based upon the demands of the building. These systems have high initial cost but can yield significant energy and cost savings including virtually no added maintenance cost with operation usually longer than the lifetime of the building. The proposed UW-EC building is a mixed-use office, lab facility with significant energy demand and year-round operation.

Assumptions:

Building area:	331,500 sf
Peak cooling load:	1,600 tons
Peak heating load:	30,000 MBH

Formation thermal conductivity:	1.41 Btu/hr-ft-F (at Eau Claire St. & S. Dewey St., Eau Claire, WI)
Formation Thermal Diffusivity:	1.00 ft^2/day
Undisturbed Ground Temperature:	52.1-53.7°F

To calculate the size of the geo field we used a load profile from a similar project using Eau-Claire weather data. Based on this preliminary analysis the size of the geo field is as follows:

1. 100% Geothermal (meeting building's full load requirement):
    a. 500' deep, 1U, HDPE 4710, DR-11, 1-1/4" pipe, 25' oc. 600-650 boreholes
    b. 850' deep, 1U, HDPE 4710, DR-11, 1-1/2" pipe, 25' oc. 350-400 boreholes
2. With supplemental campus boilers and chillers/towers (40-50% peak capacity shaving):
    a. 500' deep, 1U, HDPE 4710, DR-11, 1-1/4" pipe, 25' oc. 300-350 boreholes
    b. 850' deep, 1U, HDPE 4710, DR-11, 1-1/2" pipe, 25' oc. 175-225 boreholes

Estimated cost of the geothermal heating and cooling would be as follows:

1. 100% Geothermal:
    a. 500' deep, 1U, HDPE 4710, DR-11, 1-1/4" pipe, 25' oc. $6,000,000 – $7,500,000
    b. 850' deep, 1U, HDPE 4710, DR-11, 1-1/2" pipe, 25' oc. $6,500,000 – $8,000,000
2. With supplemental campus boilers and chillers/towers:
    a. 500' deep, 1U, HDPE 4710, DR-11, 1-1/4" pipe, 25' oc. $3,000,000 – $4,000,000
    b. 850' deep, 1U, HDPE 4710, DR-11, 1-1/2" pipe, 25' oc. $3,250,000 – $4,250,000

The additional cost of the heat pumps and lateral piping is expected to be:

1. 100% Geothermal: $1,000,000
2. With supplemental campus boilers and chillers/towers: $750,000

Based on results from the preliminary model, geothermal heating and cooling ROI is expected to be 20-25 years. This will need to be studied further using a more detailed energy model.

E8: Power Factor Correction

Use capacitors to improve the electrical system power factor to near 100%. Campus does not have this yet in any buildings. Doug S. to review with DFDM.

Power factor correction is not anticipated for installation under this project. Anticipated power factor is above 0.9 given historical information on similar building types. Use of LED lighting and variable frequency drives on motor loads has limited the need for power factor correction on most recent projects. In fact, a few recent projects are even seeing a leading power factor which has caused issues such as generator shutdown on reverse kVAR (leading power factor).

Although power factor correction is not anticipated for the project, provisions will be provided in the electrical distribution system to allow power factor correction capacitors to be installed in the future should a low power factor develop after building occupancy.

Advantages:

- Lowers the electric system losses by reducing the total amperes of the loads
- Lowers the electric bill due to reduced demand power kVA.

Disadvantages:

- Higher first cost
- Requires space and ventilation for equipment
- Overcorrection can cause leading power factor which can negatively affect generator operation and electronic equipment

E10: Programmable Relay Panels for Lighting Circuit

This ECM is a code requirement of ASHRAE 90.1-2016 and will be part of the project

Use programmable lighting relay panels to automatically turn OFF and ON lighting circuits. Campus to provide input on the lighting controls.

Advantages:

- More efficient operation lowers lighting energy consumption

Disadvantages:

- Higher first cost

Appendix D: Wetland Delineation Confirmation From WDNR

University of Wisconsin-Eau Claire
New Science/Health Science Building
Eau Claire, Wisconsin

DFD Project Number 19J4E

May 28, 2021

Prepared by:

Potter Lawson
Success by **Design**

hok

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
1300 W Clairemont Ave.
Eau Claire, WI, 54702

Tony Evers, Governor
Preston D. Cole, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

WISCONSIN
DEPT. OF NATURAL RESOURCES

Kristine Anderson
101 East Wilson Street
Madison, WI 53707

WIC-WC-2021-18-00279

RE: Wetland Delineation Confirmation for Approximately 6.15-Acre Project Review Area, located in the NE1/4 of the NW1/4 of Section 29, Township 27 North, Range 09 West, city of Eau Claire, Eau Claire County.

Dear Ms. Anderson:

Governor Evers' Safer at Home order prohibiting all nonessential travel, with some exceptions as clarified and defined in the order has resulted in temporary Department changes to wetland confirmation reviews. As a result, the Department has conducted a thorough review of all available resources associated with this wetland confirmation request including but not limited to the wetland delineation report, county GIS mapping software, LiDAR and topographic review, onsite photos, and/or aerial photographs.

This letter will serve as confirmation that wetland boundaries found within the project review area to be accurate. These wetland boundaries are indicated on the enclosed wetland delineation figure. This finding is based upon a thorough review of all materials by the Department (2/22,23/2021). Any filling or grading within these areas may require DNR approvals. Our wetland confirmation is valid for five years. Be sure to send a copy of the report, as well as any approved revisions, to the U.S. Army Corps of Engineers.

In order to comply with Chapter 23.321, State Statutes, please supply the department with a polygon shapefile of the wetland boundaries delineated within the project area. Please do not include data such as parcel boundaries, project limits, wetland graphic representation symbols, etc. If internal upland polygons are found within a wetland polygon, then please label as UPLAND. The shapefile should utilize a State Plane Projection and be overlain onto recent aerial photography. If a different projection system is used, please indicate what system the data are projected to. In the correspondence sent with the shapefile, please supply a brief description of each wetland's plant community (eg: wet meadow, floodplain forest, etc.).

There is a potentially navigable waterway identified in the project review area. DNR Chapter 30 permits will be needed if earthwork (filling, dredging, etc.) or structures (culverts, bridges, erosion control, etc.) are proposed in or adjacent to the waterway if determined to be navigable.

If you are planning development on the property, you are required to avoid take of endangered and threatened species, or obtain an incidental take authorization, to comply with the state's Endangered Species Law. To ensure compliance with the law, you should submit an endangered resources review form (Form 1700-047), available at https://dnr.wi.gov/topic/ERReview/Review.html. The Endangered Resources Program will provide a review response letter identifying any endangered and threatened species and any conditions that must be followed to address potential incidental take.

In addition to contacting WDNR, be sure to contact your local zoning office and U.S. Army Corps of Engineers to determine if any local or federal permits may be required for your project.

If you have any questions, please call me at (715) 415-4916 or email Travis.Holte@wisconsin.gov.

Sincerely,

Travis Holte
Wetland Identification Specialist

Enclosures:
Project Location Figure
Wetland Delineation Figure

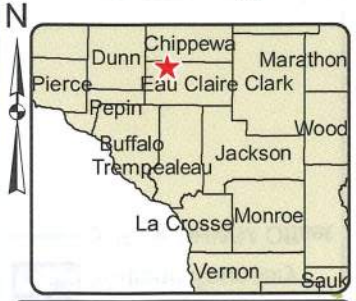
Cc (via email):
Bill Sande, Project Manager, U.S. Army Corps of Engineers
Rodney Eslinger, Eau Claire County
Amanda Dehmlow, DNR Water Management Specialist-Wetland Team
Rob Wayne, Ayres Associates

Figure 1. Site Location and Topography

UWEC Science Building

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), swisstopo, © OpenStreetMap contributors, and the GIS User Community

N



Location
Section 29, T27N, R9W
Eau Claire County, Wisconsin

0 75 150
Feet

Project Information
Project Number: 23-1801.10
Modified: December 23, 2020

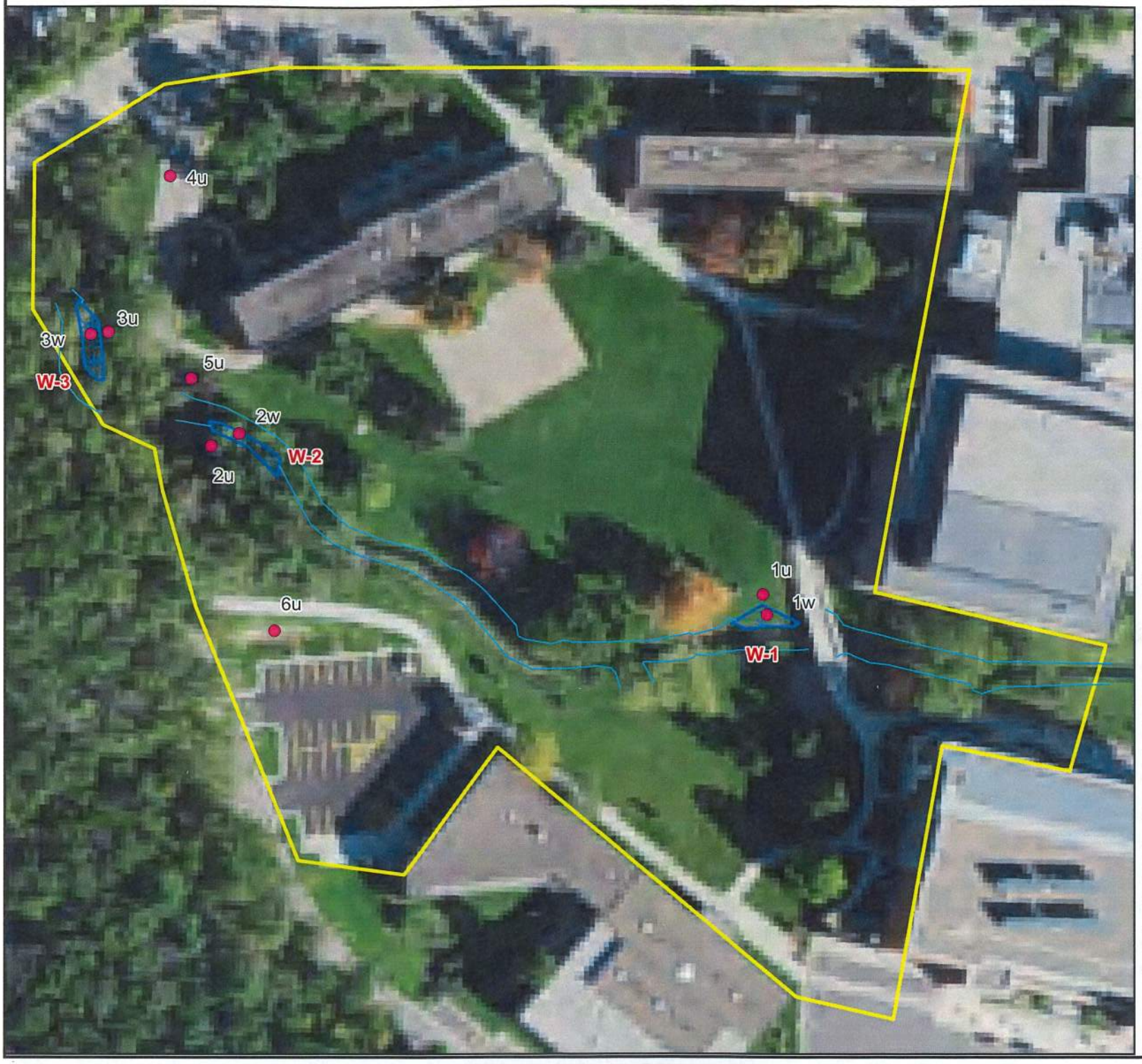
Legend

Investigation Area

AYRES
3433 Oakwood Hills Parkway
Eau Claire, Wisconsin 54701

Figure 4. Wetland Delineation Map

UWEC Science Building



N

Location
Section 29, T27N, R9W
Eau Claire County, Wisconsin

0 50 100
Feet

Project Information
Project Number: 23-1801.10
Modified: January 26, 2021

Legend

- Investigation Area
- Sample Points
- Wetland Boundary
- 3' Foot OHWM Offset

AYRES
3433 Oakwood Hills Parkway
Eau Claire, Wisconsin 54701