Natural Science Building Renovation Project

Team Logistics Meeting December 19, 2016

Western Oregon University Strategic Plan (11/28/16 draft update)

Mission Statement: Western Oregon University creates lasting opportunities for **student success** through transformative education and personalized support in an accessible collaborative community.

Mission – Values – Goals Alignment

Mission Element Value

Transformative Education Excellence

Personalized Support Accessibility

Empowerment

Collaborative Community Collaboration

Community

Diversity and Respect

Lasting Opportunities Accountability

Sustainability and Stewardship

STRATEGIC GOALS

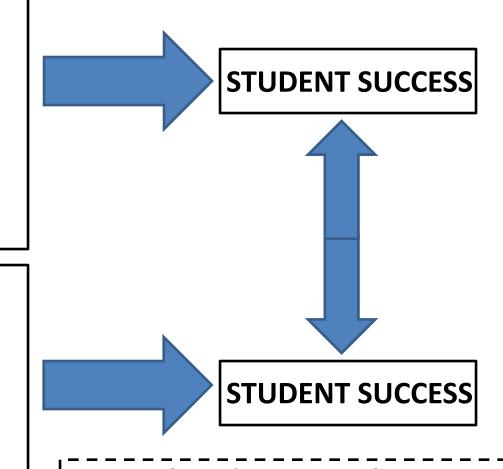
I. Student Success

II. Academic Excellence

III. Community Engagement

IV. Accountability

V. Sustainability and Stewardship



HECC Higher Education Goals: access, streamlined pathways, degree completion, career connections

Natural Science Building Remodel Project

Goal: to renovate / facility for use by Biology, Geology, Earth & Physical Science

Project Budget: \$6 million $(^{5}1.5M \text{ soft costs} + ^{5}4.5M \text{ construction})$

Project Scope:

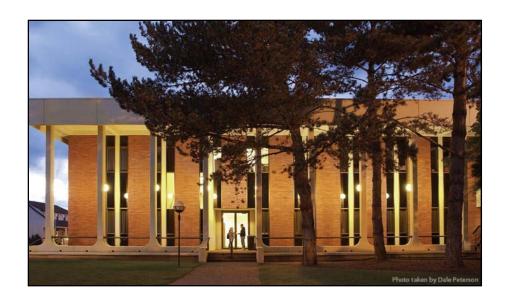
- Upgrade HVAC equipment and controls;
- Replace the transformer, main distribution panel, and feeders of electrical system;
- Seismically reinforce the structure and equipment to meet current building code;
- Remodel labs, classrooms, and related ancillary space;
- Replace existing plumbing pipe and fixtures throughout the building;
- Remodel all four existing restrooms to make them fully ADA compliant;
- Remodel offices and doorways to correct ADA deficiencies;
- Retrofit lighting with energy efficient fixtures;
- Replace obsolete elevator equipment and controls and refurbish elevator car;
- Abate asbestos material throughout the building; and
- Replace rooftop greenhouse.

NS BUILDING PROJECT LOGISTICS

Existing Natural Science Building Standard Academic Operations

Pre-Planning and Logistics; Design and Engineering

Temporary Relocation of Academic Operations



Construction Phase Temporary
Space Relocation to Vacant College
of Education Building

Natural Science Building
Construction and Renovation

Construction Phase Academic Goals:

- minimize disruption of service to students
- recruit and retain students in science
- maintain or increase graduation rates
- maintain established curriculum & outcomes
- maximize cost effectiveness at all levels

Post-Construction Reoccupation of Natural Science Building



Return to Standard Academic Operations

NS BUILDING PROJECT COMPLICATING FACTORS

- Physical Plant Director retirement / open search
- Retooling of Physical Plant Assistant Director search
- Appointment of Interim Head Skilled Trades Manager
- Construction Manager position open / search pending
- Architect selection process in progress / pending
- Other retirements pending



- Complicated NS Building use patterns: lectures, labs, cross-campus programs
- Extensive equipment, specimen and technology assets
- Integrated curriculum, technology, research and building use
- High-traffic, high-impact building affecting 1000's of student schedules per term
- Greenhouse operations integrated into Biology curriculum
- Academic year scheduling conducted 8 months in advance of fall term start
- COE Building currently has limited infrastructure for temporary lab set-up
- No temporary rooms, labs or offices have been delineated or identified (TBD)
- Set-up of temporary labs and technology infrastructure will be significant
- Vacating NS Building will require storage and mobilization costs
- Faculty and Staff overload during academic year, relocation time crunch
- Complicated logistics associated with maintaining student service levels

Natural Science Building Profile and Room Use Fall 2016

No. of Classrooms: 6 (4,972 sq. ft.) **No. of Labs:** 13 (12, 588 sq. ft.)

No. of Offices: 33 (3,654 sq. ft.)

Instructional Support Spaces / Storage Areas: 41 (8,049 sq. ft.)

Greenhouse: 1 (951 sq. ft.)

Lab Seats Per Room: 16-24

Lecture Seats Per Room: 26-106

No. of Smartroom Consoles: 19

No. of Student Lab Computers: 159

No. of Office/Research Computers: 51

Fall 2016 Building Users: Biology, Chemistry, Criminal Justice, Economics,

Earth Science, Honors Program, Mathematics,

Physics, Political Science, Social Science, Spanish

No. Classroom Lecture Sections: 81

No. Lab Sections: 50

Total Enrolled Seats: 2,555 (all programs, all sections)

Biology NSB Assets: Field Equipment, Plant & Animal Collections, Sea Table and Live Animal Collections, Greenhouse / Plants, Microscopes, Instrumentation, Classroom & Laboratory Equipment, Computer Technology, Faculty Office and Research Labs, Student Research Space...



Earth and Physical Science NSB Assets: Field Equipment, Mineral and Rock Collections, Fossil Collections, Map Library, Microscopes, Instrumentation, Classroom & Laboratory Equipment, Computer Technology, Faculty Office and Research Labs, Student Research Space...



NAVIGATING COMPLEX WATERS

Institutional Threats During Construction:

- service disruption, loss of majors / graduates
- loss of enrollments, low customer satisfaction
- decreased productivity, low employee morale
- self-inflicted barriers to student success
- inflationary construction costs with time
- external political factors and budgetary forces



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TIME – PLANNING – TEAMWORK

Patient Prior Planning Promotes Proper Performance

Natural Science Building Renovation Pre-Construction Logistics: Temporary Relocation to COE Building

Interim Biology Facility Needs:

- One BI 100 Lab (w/ water)
- One BI 200 Lab (w/ water)
- Two BI 300-400 Labs (w/ water)
- One Microbiology Lab (w/ water, autoclave)*
- Linked Greenhouse (w/ water)
- 14 Faculty/staff offices
- Ancillary instrument / prep rooms
- ~2500 sq. ft storage space
- Shared access to three hoods
- Shared access to DI water

Interim EPS Facility Needs:

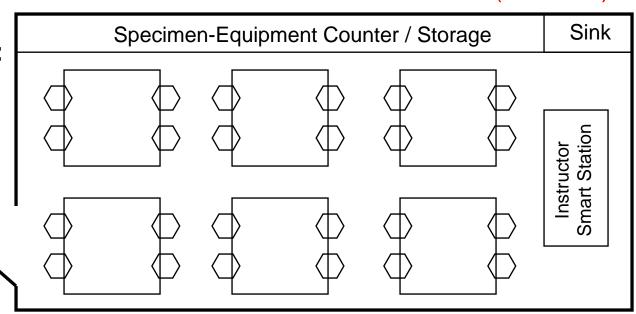
- One ES 100 Lab (w/ water)
- One ES 200 / Upper Division Lab
- One ES 300-400 Lab
- One GIS Computer Lab#
- One Physics Lab
- 10 Faculty/staff offices
- Ancillary research / prep rooms
- ~2500 sq. ft storage space

Interim Shared Program Need:

One GS Honors / Science Methods Lab (w/ water)*

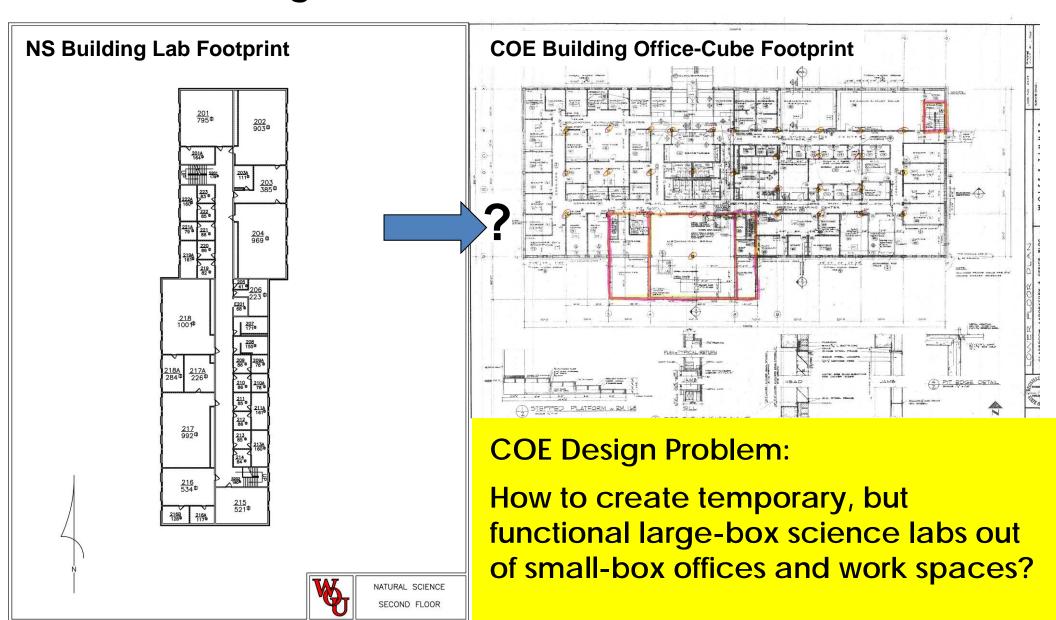
Standard Laboratory Footprint:

- 24 seats w/ Work Tables
- 12 Computer Stations
- Sink and Water
- Counter Space / Storage
- Smart-Room Technology
- ~1000 sq. ft.
- Electrical at Work Tables



COE Building Design Goal:

Create functional, cost-effective, temporary laboratory facilities to maintain student service levels during Natural Science Building renovation.



Revised Timeline to Maximize Probability of Project Success

