REVIT

3.0 Credit Seminar | 4h x 10 weeks
Instructor: Mary Polites
Office: 263 Onyx Hall I
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Office Hours: By appointment
Class times: Tuesdays & Thursdays from 5:00 – 6:50 pm
Room: Lawrence 383 & for PDX on Zoom

Course Description

Revit is currently the most used BIM program used in architectural offices across the country, and a solid knowledge of the program is expected from all prospective employees.

This is an introductory course to Revit and will provide basic skills needed to build and document an architectural project through in-class demonstrations and weekly assignments. The course is designed to follow the studio project workplan, and therefore will start with topics that are traditionally taught as “advanced” (like site and topography), but are the first step when starting to understand and build the context of a building. That will be followed by conceptual design (massing studies and in-place masses, drawing and editing tools), design development (through modeling building components, setting up perspective views) and project representation (creating perspective sections, exploded axonometrics, sheet layouts and graphic standards). One of the sessions will be dedicated to using Enscape and VR, not just as a rendering/representation engine, but as a design tool - using it while concurrently developing the project in Revit.

While mostly geared to first-time users, the class proved to be useful for students who already have some basic knowledge: in understanding Revit in a comprehensive way and learning essential tips. We move quickly and content compounds heavily.

The course is structured around bi-weekly classes in the computer lab. Students will be watching pre-recorded tutorials during class time on Tuesdays and then building their projects from this knowledge during class on Thursdays. Be prepared to bring a headset or earbuds so you can listen at your own pace. This course has weekly quizzes of content learned the prior week and a Revit Portfolio that is built in InDesign as a final deliverable.

Course Objectives

- Understanding Revit as a BIM program
- Learning how can Revit streamline the design process
- Gain skills needed to design and represent your project using Revit
- Using Enscape and VR along with Revit
- Using InDesign and a pre-designed template to document your progress
Course Outline and Schedule*

*Subject to change at the discretion of the instructor

Week 1 (01/09): INTRODUCTION, SITE MODELING
- Introduction to course, survey
- Toposurface and building pad
- Managing links and images, scaling

Week 2 (01/16): CONCEPTUAL DESIGN
- Massing studies and in-place masses
- Modeling walls, floors and roofs by face

Week 3 (01/23): SIMPLE LAYOUT
- Creating Levels, Plan Regions, Sections, Elevations
- Modeling simple floor plans, walls and roofs
- Placing elements (doors, windows, openings)

Week 4 (02/06): MAIN BUILDING ELEMENTS
- Walls and Curtain Walls
- Floors, Ceilings and Roofs

Week 5 (02/13): VERTICAL CIRCULATION
- Stairs, Ramps, Railings

Week 6 (02/20): PROJECT VIEWS
- Setting up 3D Views: Axonometric and Perspective
- Section boxes and creating perspective sections
- Exploded axonometric

Week 7 (02/27): LIGHT, ENSCAPE AND VIRTUAL REALITY

Week 8 (03/06): PHASES AND DESIGN OPTIONS

Week 9 (03/13): DRAWING SETS
- Views, sheets and creating title blocks
- Plan callouts and detailing
- Schedules, Rooms and Color-Fill Plans

Week 10 (03/20): FINAL REVIEW WEEK – no classes

Week 11 (03/27): EXAM WEEK / EXHIBITION
Before First Class You Need to…

- Install Revit 2023
- Open Revit and ensure you can login
- Bring a Mouse to Class if you are in Eugene
- If you are on a Mac and need help – contact IT before first day
- Review Canvas Module & Teams for any updates in our course

Course Policies

**Evaluation Methods** Oversighted continuous evaluation of exercises during class. Class participation, quality of delivered assignments and meeting the assignments deadlines. Individual end of term discussions with professor on student strengths, weaknesses, and other recommendations.

**Grading System** Grading is optional. Pass/No Pass/Incomplete. Students are expected to complete all the class requirements. An incomplete grade will only be given to students with documented medical emergencies.

**Attendance** Students are explicitly expected to be in class each studio day for the entire duration. Send an email to professor if you will be absent, late, or if you will not be able to be in class for the entire time, but understand that this does not grant an “excused absence”. This should be done before class starts at 5:00 pm. If you are 5 minutes late without previous contact you will be counted as missing the class. Additionally, leaving 5 minutes before class is over will result in a missed class. Please note that notifying your professor does not mean that the absence is excused. Only certain absences will count as excused. Attendance is extremely important. If students have two unexcused absences they will need to immediately schedule a private conference with the instructor to discuss options. Two unexcused absences is a serious situation and may jeopardize a student’s earning a passing grade. This is a class in which you are meant to be actively moving through content at your own pace and asking questions as they arise. It requires you to be responsible for your learning, while I help troubleshoot and address specific issues. If you are found to be watching videos or on social media that is not for this course, you overall grade will be reduced 5 points. As an example, if you have a 95 in the course at the end of term, you will receive a 90.

**Incomplete Policy** Students are expected to behave in a professional manner and to turn in all materials at the designated time. In accordance with university regulations, an incomplete will only be given when “the quality of work is satisfactory but a minor yet essential requirement of the course has not been completed for reasons acceptable to the instructor.”

**Late Policy** Students are expected to submit all quizzes, assignments, and watch tutorials as noted on the Canvas platform. Late work is not accepted, even if it is 1 minute late, credit will not be provided. To prepare for this ensure you submit tasks on time before deadlines.

**Ownership of Work** All student work will remain the property of the University of Oregon unless discussed previously. The work will be available for the student’s review over the term. Students who wish to retain drawings, images, models, etc. should make duplicates, copies, or photographs prior to making any required submittal to the Department of Architecture.

**Ethics** Clearly indicate all resources used for seminar assignments. Misrepresenting someone else’s work or ideas as one’s own, or in any way contributing to such a misrepresentation, will be taken seriously and may result in disciplinary action as required. The University Student Conduct Code (available at conduct.uoregon.edu) defines academic misconduct. Students are prohibited from committing or attempting to commit any act that constitutes academic misconduct. By way of example, students should not give or receive (or attempt to give or receive) unauthorized help on assignments or examinations without express permission from the instructor.

**Plagiarism** Students should properly acknowledge and document all sources of information (e.g. quotations, paraphrases, ideas, data, analyses). If there is any reasonable question about whether an act constitutes academic misconduct, it is the student’s obligation to clarify the question with the instructor before committing or attempting to commit the act. Additional information about a common form of academic misconduct, plagiarism, is available at: [https://researchguides.uoregon.edu/citing-plagiarism/plagiarism](https://researchguides.uoregon.edu/citing-plagiarism/plagiarism)

**Discrimination** All students are expected to adhere to University of Oregon policies related to discrimination based upon ethnicity, gender, and sexual orientation.
**Students with Disabilities** If you have a documented disability and anticipate needing accommodations in this course, please make arrangements to meet with your studio professor during the first week of class. You may also contact Accessible Education Center (formerly Disability Services) at 541-346-1155. Additionally, please request that the Counselor for Students with Disabilities send a formal letter outlining your disability to your seminar instructor.

**Inclusion Statement** The College of Design is a community that values inclusion. We are committed to equal opportunities for all faculty, staff and students to develop individually, professionally, and academically regardless of ethnicity, heritage, gender, sexual orientation, ability, socio-economic standing, cultural beliefs and traditions. We are dedicated to an environment that is inclusive and fosters awareness, understanding, and respect for diversity. If you feel excluded or threatened, please contact your instructor and/or department head. The University Bias Response Team is also a resource that can assist you. Find more information at their website at http://bias.uoregon.edu/index.html or by phoning 541-346-2037.

**Email and Communication** Please send emails from your uoregon email and ensure your name is clearly visible in the "from:" header so that your email can be distinguished from spam. Course announcements will be sent to your uoregon email addresses or will be placed on Canvas.