

Syllabus

TEC D 128 – Advanced Residential Architectural Drawing

Olympic College – Bremerton, WA

Credits: 4

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Course Description:

This course will encompass the Architectural Design process used to complete a set of “Construction Drawings” for a Custom Residential Home using Computer Aided Design Drafting. As a part of the design process, students will consider a number of factors that are significant to the actual design. The factors included, but are not limited to: Building Codes and Local Ordinances, Site Planning, Environmental elements, Space Planning, Adjacencies of spaces, Floor Plan layouts, Roof Plans, Exterior Elevations, Interior Elevations (cabinetry layouts), Building and Wall Sections, Door and Window Types/Schedules, Dimensioning, Legends and Symbols, and Architectural Detailing.

Course Objective:

Upon completion of this course, students will have completed an actual set of Construction Documents for a Single-Family dwelling, which can be brought to a Structural Engineer for structural design & calculations, to Mechanical & Electrical Engineers for Design Build quotes, and more importantly, to the local Building Department for review and approval in order to receive a Building Permit, if desired.

Prerequisite:

Residential Architectural Drawing 127 or by Instructor’s approval.

Required Text:

The text for this course is:

Architectural Drafting and Design

ISBN: 1-4018-6715-4

Edition / Copyright: 5TH

Publisher: Thompson Delmar Learning

Book Type: Hardback

Course Requirements:

Final course grade will be based on:

<i>Attendance and Participation</i>	100 pts.	(5pts. for each class scheduled)
<i>Mid-Term Presentation</i>	100 pts.	(student presentation)
<i>Final Submittal</i>	300 pts.	(completed set of drawings)

Total 500 pts.

Grading procedure

The final grade is calculated by dividing your total points by the total possible points. The percentage result is then multiplied by 4.00 to determine your decimal grade.

Example: 500 total points possible 385 points earned by student

$$385 / 500 = .77 \quad .77 \times 4.00 = 3.08 \text{ rounded to } \underline{\underline{3.1}}$$

Attendance and Participation

Because of the extensive amount of information required to complete the drawings in this class, regular attendance in class will be expected.

Participation will play an essential role in getting through this class. Participation is interpreted by the student's undivided attention during the lecture, understanding of course material when called upon, interest, and enthusiasm.

Class meets 20 times this term; 5 points per class. **Total: 100 points.**

Mid-Term Presentation

Each student will present their designs to the instructor, class, and guest design instructors/professionals. The students will present their designs through oral communication by discussing the logic or rationale that has led to the design concepts presented. The presentation will be limited to 10 minutes.

Date: Please make sure to log this date into your calendar: **Week 5 – Days 1 & 2**

Total: 100 points.

Final Submittal

Each student will have completed a final set of "Construction Documents" to submit to the instructor for final review based on the "Program" requirements below.

Program: "Design a Custom House"

- 1) Design a Custom Single Family Dwelling.
- 2) 1-Story or 2-Story.
- 3) Limit square footage to under 5,000 square feet.
- 4) Site location may be hypothetical or real.
- 5) Each student must brain storm a list of items that the student feels are necessary elements needed for the final design. (the wish list)

Final Submittal (cont.)

Construction Documents: (sample generic set will be provided)

- 1) **Cover Sheet** – Title, Project Info, Legend & Symbols, Vicinity Map, Sheet Index, Perspective.
- 2) **Site Plan** – Property Lines, Building Outline, Setbacks, North Arrow, Scale, Site Details.
- 3) **Floor Plans** – Floor Plan Layouts, Dimensions, Title & Scale, North Arrow, Grid, and Symbols for: doors, windows, finishes, elevations, and sections,
- 4) **Roof Plan** – Roof Plan Layout, Slopes, Location of Ridges, Hips and Valleys, and Overhangs.
- 5) **Exterior Elevations** – All required elevations, Building Heights, Exterior Finishes.
- 6) **Sections** – Building Section, Wall Section, misc. Details.
- 7) **Vertical Circulation** – If Stairs or Elevators are a part of the design.
- 8) **Interior Elevations** – Bathrooms, Kitchen, and any additional areas with Cabinetry.
- 9) **Schedules** – Door, Window, and Finishes Schedules. Door and Window types.
- 10) **Miscellaneous** – Any additional details that may be required as a part of the design.

Due Date: Please make sure to log this date into your calendar: **Week 11 – Day 1**

Total: 300 points.

Classroom Policies:**Cell Phones:**

Classroom use is prohibited. Either turn off completely or set mode to vibrate. Do not use cell phone during active lecture or demonstration time. Break times will be provided and phones can be used during that time period.

Cheating

Cheating in any form is grounds to fail the course and will be reported to Olympic College Administration.

Resources:**American Disabilities Act Statement:**

Any student who feels he/she may need an accommodations based on the impact of a disability should contact the office of Access Services located in Humanities 114, or call (360) 475-7540 for information or an appointment.

Special Needs and/or Issues:

Any student who feels that they might have special needs in order to meet the requirements of this class, or if you run into problems, or have extenuating circumstances that may affect your class attendance or overall participation, please let me know at your earliest opportunity. My goal here is to not only help you get through this class, but to help you get the most out of it as well.