

Syllabus

TEC D 127 – Residential Architectural Drawing

Olympic College – Bremerton, WA

Credits: 4

Instructor: Peter Sanchez
 Office: OC-BUS 207 / PSNS-281
 Phone: OC (360) 475-6552 / PSNS (360) 476-8713
 OC Fax: (360) 475-7365
 E-mail: psanchez@olympic.edu
 Professors Online Webpage: <http://faculty.olympic.edu/>

Course Description:

This course will encompass the Architectural Design process used to complete a set of “Design Development Drawings” for a Custom Residential Home using manual drafting techniques. 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: Programming, Bubble Diagramming, Space Planning, Adjacencies of spaces, Floor Plan layouts, Roof Plans, Exterior Elevations, Interior Elevations (cabinetry layouts), Building and Wall Sections, Dimensioning, Legends and Symbols, Building Codes and Local Ordinances, Site Planning, Environmental elements. This is a pencil drawing course.

Course Objective:

Upon completion of this course, students will have completed an actual set of Design Development Drawings for a Single-Family dwelling. This set can be brought to a Structural Engineer for structural design & calculations review, to Mechanical & Electrical Engineers for design build quotes, and more importantly, a set ready to go into the Construction Documents phase of a design, which will be needed for submittal to the local Building Department for review and approval in order to receive a Building Permit.

Prerequisite:

TEC-D 107 or by Instructor’s approval.

Required Text:

The text for this course is:

Architectural Drafting & Design

Authors: Jefferis, Madsen, Madsen

Publisher: DelmarCengage Learning

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)
<i>Total</i>	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 drawings 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 6 – Days 1 & 2**

Total: 100 points.

Final Submittal

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

Program: "Design a Custom House for a client (fellow student)"

- 1) Design a Custom Single Family Dwelling.
- 2) 1 or 2-Story.
- 3) Limit square footage to under 5,000 square feet.
- 4) Site location: per Instructor's requirements.
- 5) Pencil Drawn on 24x36 vellum sheets.

Final Submittal (cont.)

Process: Each student will select a fellow student to be their Architectural Designer. Then the roles are reversed where the Architect becomes the client.

Design Development Package:

- 1) **Title Sheet** – *Title, Project Info, Legend & Symbols, Vicinity Map, Sheet Index, Perspective.*
- 2) **Site Plan** – *Property Lines, Building Outline, Setbacks, North Arrow, Scale*
- 3) **Floor Plans** – *Floor Plan Layouts, Dimensions, Title & Scale, Symbols*
- 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*
- 7) **Interior Elevations** – *Bathrooms, Kitchen, and any additional areas with Cabinetry.*

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.

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.