Syllabus

2D Production Drawing – TEC D 221
Olympic College – Bremerton, WA
Credits: 4

Instructor: Peter Sanchez
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Course Description:
An intensive course using AutoCAD techniques to create and modify 2D-Production Drawings. Students will create production drawings. This is a course to simulate the real working world. Students will be details, sub-assemblies, assemblies, orthographic views, sections, details, materials lists, etc. and then create a library system to arrange them in a format that can easily be referenced for the final submittal package. As a part of this process, students will be introduced to using 3D Modeling techniques in order to create study models needed for production drawing verification.

Learning Objectives:
Upon completion of this course, you will be able to:

1. Perform work on a 2D production project.
2. Identify dimensioning systems used in technical drawings and properly dimension drawings.
3. Create and edit blocks, attributes and symbol libraries.
4. Work with external references.
5. Use multiple viewport drawing layouts.
6. Utilize 3D Modeling techniques for verification

Prerequisite:
TEC-D 200 or by instructor permission.

Recommended Text:
A. Title: AutoCAD 2012-2014 Tutor for Engineering Graphics
   Author: Alan J. Kalameja

B. Title: Fundamentals of Modern Drafting
   Author: Paul Ross Wallach

Course Requirements:

Final course grade will be based on:
Attendance and Participation 100 pts. (5 pts. for each day attended)
Weekly Assignments 100 pts. (10 pts. ea.)
Final Project 300 pts. (Required: see details below)
Total \hspace{2cm} 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 4.0 to determine your decimal grade.

*Example: 500 total points possible  \hspace{0.5cm} 380 points earned by student*

\[
\frac{380}{500} = .76 \hspace{0.5cm} .76 \times 4.0 = 3.04 \hspace{0.5cm} \text{rounded to} \hspace{0.5cm} 3.0
\]

**Attendance and Participation**
Because of the extensive amount of information required to complete the Weekly Assignments and the Final Project for 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.

**Weekly Assignments**
Each student will be required to complete all weekly assignments as listed in the Course Outline. It is important for students to understand that each assignment has a direct impact on the Final Project, therefore, incomplete assignments may cause students to lose points in the Final Project as well.

*Assignments are due within one week of the assigned date. Half-credit will be given for all late assignments.*

*Score sheets will be available for the assignments. Students must note on the score sheet each assignment that is ready for grading and submit it to me for verification of completeness. I will score each assignment and return the score sheet to each student for review.*

*All graded score sheets must be submitted back to me on the last day of class in order for me to calculate a total score. Any score sheets not turned in by the end of the term will not receive points for those sections, thus affecting the total score.*

**Final Project:**
Each student will be required to complete a set of 2D-Production Drawings that utilizes majority of the items discussed during the term.

The Project: Student Designed “Drafting Table and Matching Chair”

The Final Project will be submitted to me at the end of the term as follows:

(1) **Printed set of the Entire Package** on 11x17
**Note:** The Final Project will be a continuously running set that will be changing and evolving as the course progresses. This is not the type of project that can wait until the last few weeks of the term to begin. In order to actually complete the Final Project, it must be worked on continuously each week.

**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.

**Ethics:**
Pirating software is illegal. Please do not attempt to do so. Downloading data from the internet is prohibited and will be reported to Olympic College.

**Cheating**
Cheating in any form is grounds to fail the course and will be reported to Olympic College. Actions taken will be per Olympic College Policies and Procedures.

**Note:** Tracing, copying, or using other’s work is considered cheating!

**Computer Equipment:**
If repairs are needed to your computer, please notify the instructor so that the IT Department can be contacted for repair. Do not attempt to repair the computer yourself.

**Additional Lab Hours:**
Completion of graphic assignments may require an investment of additional student time. The computer lab at the Olympic College campus is available to all OC students when no other class is in session. It is located in Shop 114.

**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 at (360) 475-7540 for information or an appointment.