

## ***Syllabus***

Instructor: Ron Raty

Office: BUS 211

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Office hours:

by appointment

### **Course Description:**

The goal of a technical drawing is to communicate technical ideas. Those who use technical drawings have to be able to “read” them. Essentially, that means understanding what the drawing is trying to communicate. Technical drawings use a myriad of industry standards, graphics, abbreviations, and references. The goal of this class to introduce the student to the communication devices used in a technical drawing, so when you see it in a technical drawing, you understand what it is saying, and it isn’t just a jumbled bunch of lines and words and numbers.

### **Course Outcomes:**

This course will encompass many of the fundamental principles of graphics as they are used in the technical design field.

- Meanings of the common graphics, terms, and abbreviations used in blue prints.
- Understanding how objects are sized and otherwise described.
- How to interpret the different types of drawings used to describe objects.
- An introduction to the different types of orthographic views
- An understanding of common features found on manufactured parts, and how they are described.
- Imperial and metric dimensions
- How to communicate the required quality and accuracy of a manufactured part.
- How to specify connectors.
- An understanding of basic gearing commonly used in mechanisms.
- Welding symbols

### **Prerequisite:**

None

### **Required Text and Materials:**

The text for this course is: **Blueprint Reading for the Machine Trades, latest edition, Smith and Schultz, published by Prentice Hall**

### **Course Requirements:**

This is essentially a work book class. The concept is: as homework you read and try to understand the chapter (Unit) and complete selected worksheets from each unit. There

are 16 units. In class, you will ask for clarification of anything you don't understand so I can review it. THEN, we will correct the selected worksheets in class. Every one corrects their own worksheet, if you get one wrong, you should understand why and fix it before turning it in.

*Class Participation/attendance:*

This is essentially an on-line class. There is no score for participation or attendance.

*Worksheets:*

As part of the homework, students will complete selected questions/pages (in Canvas) from the book. Answer the questions, if you have any questions, then ask the instructor on line.

*Quiz*

A quiz will be periodically given on the subjects covered in the book. Quizzes will be on-line in canvas.

**Final Grade**

Your final course grade is based on a percentage system:

Attendance	0%
Worksheets	50%
Quizzes	<u>50%</u>
 Total	 100%

The final grade recorded with the registrar is based on the percentage of available points you manage to earn during the course compared to the total possible. The total possible may vary depending on the progress of the quarter, but it is always 100%.

90%	4.0
80%	3.0+
70%	2.0+
60%	1.0+
57%	0.7+

Any percentage less than 57% is inadequate to receive class credit, and a grade of 0.0 will be recorded.

**Withdrawal:**

If you decide that you must withdraw from this class, you must do so in conformance with Olympic College policy. A discontinuance of attendance without an Official Withdrawal Form or prior arrangement with the Instructor is an automatic 0.0 (F) for the class. This is school policy and governs all classes conducted at Olympic College.

**About the Instructor and this class**

Ron Raty is a licensed architect with over 25 years of experience in architectural design and project management. He does not think of himself as a professional teacher. Because of this, his classes are managed in a manner similar to a design studio in a company, students should think of themselves as employees. They should arrive at work on time, they should complete their work in a timely manner, they should dress appropriately and act professionally, they should show respect for their fellow employees and their employer. As in the work place, failure to do these things can have consequences.

**American Disabilities Act Statement**

Any student who feels he/she may need an accommodation based on the impact of a disability should contact the office of Access Services. Access Services will inform the instructor of any special accommodations required.

Humanities and Student Services Building, Room 204

Phone: 360-475-7540 or 1-800-259-6718 ext. 7540

Fax: 360-475-7436

E-mail: [AccessServices@olympic.edu](mailto:AccessServices@olympic.edu)

**Cell Phones:**

Cell phone use during lectures and presentations is prohibited in the classroom. Please set your phone to vibrate or turn it off. If you have to take or make a call during class, please step out of the classroom as a courtesy to others.

**Food and Drink:**

In accordance with school policy, food and drinks are not allowed in the drafting room. During lab time, students may come and go as necessary to refresh themselves. Restrooms are down the hall towards the Welding lab.