

Technical Design 211 Syllabus**Instructor: Ron Raty**

Office: BUS 211

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Office hours:

11:30-12:30, Monday through Thursday

Course Description:

How many ways are there to manufacture a mechanical part, and not have it fit as intended? Maybe it is a little too big or too small, not quite square or straight. There are a myriad of ways. GD&T is the graphic language used on drawings to define how much a product can be “out of dimension” and still be acceptable.

Course Outcomes:

Upon successful completion of this course, the student will be able to:

- Define dimensioning terms commonly used in manufacturing fields.
- Interpret the meaning of symbols used in drawings with GD&T dimensioning.
- Describe the ways in which a manufactured product can be rendered dimensionally unacceptable and how to define those limitations.

Prerequisite:

None

Required Text and Materials:

The text for this course is:

Geometric Dimensioning and Tolerancing, Madsen and Madsen,
Goodheart-Wilcox Publisher

Course Requirements:

This is essentially a work book class. Students will read the chapter, then complete an assignment that demonstrates their understanding of the material. At the end of every chapter is a Chapter Test. Class time will be spent reviewing and discussing these test questions.

Assignments

A print reading exercise will be assigned for each chapter as homework.

Attendance

Unless other arrangements are made, attendance is encouraged. Much of the knowledge and understanding will come from class discussions.

Mid term and Final

A mid term and final exam will be given. The basis of the questions will be taken from the Chapter Tests, Assignments, and/or the Final published at the end of the book. These will be open book tests, but there will be a time limit. Please don't come to the test with plans to "figure it out" or "look it up." You are supposed to know the GD&T process on sight.

Final Grade

Your final course grade will be based on a percentage system:

Assignments	40%
Attendance	10%
Mid-term	25%
Final	<u>25%</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 points may vary depending on the progress of the quarter, but it is always 100%.

93%	4.0
83%	3.0+
73%	2.0+
63%	1.0+
60%	0.7+

Any percentage less than 60% 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

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.

Preliminary schedule:

Day 1 Using Canvas and the Syllabus

Day 2 and 3 – Chapter 1

Day 4 – Chapter 2

Day 4 and 5 – Chapter 3

Day 6 and 7 – Chapter 4

Day 8 – Chapter 5

Day 9 – Chapter 6

Day 10 – Mid term

Day 11 and 12 – Chapter 7

Day 13 and 14 – Chapter 8

Day 15 and 16 – Chapter 9

Day 17 and 18 – Chapter 10

Day 19 – Final