



Faculty of Engineering

COURSE OUTLINE

CIVE 200 – Engineering Drawing

Term – Fall 2015 (201509)

Instructor

Dr. Ramtin Rakhsha
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Office Hours

Days: Tuesdays
Time: 10:30AM-12:30PM
Location: ELW A238

Course Objectives

Engineering drawing: sketching, orthographic projections, multiple views, sectional views, isometric and perspective projections, dimensions and tolerances, and working drawings. Computer aided design relevant to Civil Engineering projects.

A-Section(s): A01 / CRN 10606

Days: Tuesdays, Wednesday, Friday

Time: 9:30AM-10:20AM

Location: ECS 104

B01 Monday 16:30-19:20 ELW B220

B02 Friday 16:30-19:20 ELW B220

Teaching Assistant(s):

Name: Shan Luo
E-mail: luoshan@uvic.ca
Days: Tuesdays
Time: 1:00PM-2:00PM
Location: EOW 231

Name: Tao (Tommy) Yu
E-mail: taoyu@uvic.ca
Days: Mondays
Time: 1:00PM-2:00PM
Location: EOW 225

Required Text

Title: Engineering Graphics: A Problem Solving Approach (3rd edition)
Author: Don McAdam and Roger Winn
Publisher: PEARSON-Adison Wesley
Year: 2007

Required:

Basic tools for hand sketching and drafting

Assessment:

Labs & Assignments:	15%
Project	25%
Exams & Quizzes	60%
Total	100%

Note:

ATTENDANCE and submission of lab assignments are mandatory requirements of this course. Failure to comply will result in failure of the course.¹

The final grade obtained from the above marking scheme for the purpose of GPA calculation will be based on the percentage-to-grade point conversion table as listed in the current Undergraduate Calendar.

There will be no supplemental examination for this course.

Assignments ² and projects:		DUE DATE:
Assignment 1	Solidworks modeling	End of labs, week of Sept 28, 2015
Assignment 2	Drafting using AutoCAD	End of labs, week of Oct 12, 2015
Project 1	Part 1- Civil road design project	End of labs, week of Nov 9, 2015
Project 2	Part 2- Civil road design project	Last day of classes

Note to Students:

Students who have issues with the conduct of the course should discuss them with the instructor first. If these discussions do not resolve the issue, then students should feel free to contact the Chair of the Department by email or the Chair's Secretary to set up an appointment.

Accommodation of Religious Observance

- 1) Where classes or examinations are scheduled on the holy days of a religion, students may notify their instructors, at least two weeks in advance, of their intention to observe the holy day(s) by absenting themselves from classes or examinations.
- 2) Instructors will provide reasonable opportunities for such students to make up work or missed examinations.
- 3) Students will cooperate by accepting the provision of reasonable opportunities for making up work or missed examinations.
- 4) The University Secretary's Office will distribute a multi-faith calendar to each academic unit annually.

Policy on Inclusivity and Diversity

The University of Victoria is committed to promoting, providing and protecting a positive, supportive and safe learning and working environment for all its members.

Standards of Professional Behavior

You are advised to read the Faculty of Engineering document Standards for Professional Behaviour at <http://www.engr.uvic.ca/policy/professional-behaviour.php> which contains important information regarding conduct in courses, labs, and in the general use of facilities.

¹ There will be no makeup tests, exams or quizzes. If you miss a test, exam or quizzes, you will receive zero marks.

² Late assignments or assignments that are not neat or legible will not be graded.

Cheating, plagiarism and other forms of academic fraud are taken very seriously by both the University and the Department. You should consult <http://web.uvic.ca/calendar2009/FACS/UnIn/UARe/PoAcl.html> for the UVic policy on academic integrity. *“The University reserves the right to use plagiarism detection software programs to detect plagiarism in essays, term papers and other assignments.” Pg 32, University Calendar*

Cheating, plagiarism and other forms of academic fraud are taken very seriously by both the University and the Department. You should consult entry in current Undergraduate Calendar for the UVic policy on academic integrity.

Late Assignments

No late assignments will be accepted unless prior arrangements have been made with the instructor at least 48 hours before the assignment due date.

Course Lecture Notes

Unless otherwise noted, all course materials supplied to students in this course have been prepared by the instructor and are intended for use in this course only. These materials are NOT to be re-circulated digitally, whether by email or by uploading or copying to websites, or to others not enrolled in this course. Violation of this policy may in some cases constitute a breach of academic integrity as defined in the UVic Calendar.

Syllabus

Tentative Schedule

Week	Lectures	Textbook	Lab/Tutorial
Week 1, Sep 9	Course Introduction & Introduction to engineering drawing	Chapter 1	
Week 2, Sep 14	Discuss Lab 1 - Introduction to Solid Works Orthographic Projections - Principles of projection/Line types and line precedence	Chapter 1	Introduction to Solidworks-interface, capabilities, drawing parts
Week 3, Sep 21	Orthographic Projections - Oblique planes, tangencies and intersections, isometric drawings, isometric view from orthographic projections	Chapter 2	
Week 4, Sep 28	Discuss Lab 2 Isometric Drawings - draw missing views and isometric views	Chapter 2	Solidworks - assembly drawing (Assignment #1 due)
Week 5, Oct 5	FBD and common symbols Sectioning	Chapter 3 Appendices: B, C, E	
Week 6, Oct 12	<i>(Thanksgiving Monday)</i> Discuss Lab 3 Sectioning	Chapter 3	Quiz on solidworks Introduction to Autocad- 2D drawing (Assignment#2 due)

Week 7, Oct 19	Review lecture material Review lab material EXAM 1 (Friday, OCT 23rd)		
Week 8, Oct 26	Discuss Lab 4 Dimensioning - Rules, guidelines and common mistakes Tolerancing - Tolerance fit type, error accumulation	Chapter 4	Introduction to Civil 2D (Parcels, points, surfaces, contours)
Week 9, Nov 2	Engineering Drawings with case study (TBC)	Chapter 5	
Week 10, Nov 9	Reading Break - November 9-to-11 Discuss Lab 5 Standards - Standard Specifications (1 Lec , Friday)	Chapter 4, 5 Appendices: D, F	Handout project (Civil Road Design) , Project part #1 due following week
Week 11, Nov 16	Standards - Standard Specifications Grades and Contours Review Project	Chapter 6	
Week 12, Nov 23	Review Project Grades and Contours Review exam materials Presenting technical information (TBC)	Chapter 6	Quiz Civil road design project Part #2 discussion
Week 13, Nov 30	Design project review EXAM 2 (Wednesday, DEC 2nd)	Chapter 10	Project due last day of classes (Dec 4)