CIVE 200 – Engineering Drawing (10619)
Term – Fall 2017

Instructors
Dr. Armando Tura
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Office Hours
Days: Tuesday
Time: 10:30 – 11:30
Location: ECS 311

Days: TBA
Time: TBA
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 10709
Days: Mondays, Tuesdays,
Time: 5:30PM-6:50PM
Location: Clearihue Building A212

B01 Wednesday 17:00-19:50 ELW B220
B02 Wednesday 17:00-19:50 ELW B220
B03 Fridays 15:30-18:20 ELW B220

Teaching Assistants:
Name: Andrew Deelstra
E-mail: ajdeelstra@gmail.com
Time: Wednesdays 3:00-4:00PM
Location: E-Hut 135

Name: Mostafa Rahimpour
E-mail: mrahim@uvic.ca
Time: Fridays 2:00-3:00PM
Location: ELW 248

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.

<table>
<thead>
<tr>
<th>Assignments² and projects:</th>
<th>DUE DATE:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lab 1, 2</td>
<td>End of lab time</td>
</tr>
<tr>
<td>Lab 3, 4</td>
<td>End of lab time</td>
</tr>
<tr>
<td>Lab 5</td>
<td>End of lab time</td>
</tr>
<tr>
<td>Project</td>
<td>Last day of classes</td>
</tr>
</tbody>
</table>

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.
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/PoAcI.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

¹ There will be no makeup tests, exams or quizzes. If you miss a test, exam or quizzes, you will receive zero marks.
² Assignments or labs 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 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

<table>
<thead>
<tr>
<th>Week</th>
<th>Lectures</th>
<th>Textbook</th>
<th>Lab/Tutorial</th>
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</thead>
</table>
| Week 1, Sep 11 | **Course Introduction & Introduction to engineering drawing**  
**Lab 1**  
Orthographic Projections | Chapter 1       | Introduction to Solidworks, interface, capabilities, drawing parts |
| Week 2, Sep 18 | **Principles of projection/Line types and line precedence - Orthographic Projections**  
**Lab 2** | Chapters 1 & 2 |                                                                  |
| Week 3, Sep 25 | **Lab 2**  
Oblique planes, tangencies and intersections, isometric drawings, isometric view from orthographic projections | Chapter 2       | Solidworks - assembly drawing                                                 |
| Week 4, Oct 2  | **Isometric Drawings - draw missing views and isometric views** | Chapter 2       |                                                               |
| Week 5, Oct 9  | **Lab 3**  
(Thanksgiving Monday)  
FBD and common symbols  
Sectioning | Chapter 3       | Introduction to Autocad- 2D drawing  
Appendices: B, C, E |
| Week 6, Oct 16  | **FBD and common symbols**  
Sectioning - Review  
**EXAM 1 (Tuesday, OCT 17th)** | Chapter 3       | Introduction to Civil 2D (Parcels, points, surfaces, contours)  
AutoCAD Assembly (Lab) |
| Week 8, Oct 23  | **Lab 4**  
Dimensioning - Rules, guidelines and common mistakes  
Tolerancing - Tolerance fit type, error accumulation | Chapter 4       |                                                               |
<table>
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<tr>
<th>Week</th>
<th>Activities</th>
<th>Chapters</th>
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<tbody>
<tr>
<td><strong>Week 9, Oct 30</strong></td>
<td>Engineering Drawings with case study (TBC)</td>
<td>Chapter 5</td>
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| **Week 10, Nov 6** | (Remembrance Friday)  
Reading Break  
Standards - Standard Specifications | Chapter 4, 5    |
| **Week 11, Nov 13** | EXAM 2 (Monday, NOV 13th)  
Standards - Standard Specifications  
Grades and Contours  
Review Project | Chapter 6  
Project (TBA) (Lab) |
| **Week 12, Nov 20** | Review Project  
Lab 5  
Grades and Contours  
Review exam materials  
Presenting technical information (TBC) | Chapter 6  
Civil 3D (lab) |
| **Week 13, Nov 27** | Design project review  
EXAM 3 (Tuesday, 28th) | Chapter 10  
Project due last day of classes (Dec 1st) |