



**CAMOSUN COLLEGE**  
**School of Trades and Technology**  
**Department of Civil Engineering Technology**

**CIVE 132**  
**Graphical Communications 2**  
**2020S**  
**COURSE OUTLINE**

*Please note: This outline will not be kept indefinitely. It is recommended students keep this outline for their records, especially to assist in transfer credit to post-secondary institutions.*

**1 Instructor Information**

Instructor	Perry R. Peterson
Office hours	Prearranged by email Online anytime
Location	Online
Phone	Cell 250 812 2214      Alternative: _____
E-mail	petersonp@camosun.bc.ca
Website	D2L <a href="https://online.camosun.ca/d2l/home/170552">https://online.camosun.ca/d2l/home/170552</a> Zoom Meeting Room <a href="https://us02web.zoom.us/j/81379553528">https://us02web.zoom.us/j/81379553528</a>

**2 Prerequisites and Corequisites**

- C in CIVE 131

**3 Hours and Credits**

**Course Activity**

- Lecture (Direct Instruction)
- Seminar (Direct Instruction)
- Lab /Collaborative Learning
- Supervised Field Practice
- Workplace Integrated Learning (Coop, Internship, etc.)
- Other\*(please note):

Hours / Week	Instruction – No of Weeks (Q=11; S=14; *P or S* = 7)
4	14

Credits = #

**4 Short Description**

Graphics Communications is a key element in transferring engineering design information to stakeholders within a Civil Engineering Project. In this course, students begin to connect their drafting skills with specific civil engineering topics. Students further develop their AutoCAD drafting skills to create more complex drawings: attributed and dynamic blocks, multiple layouts, and plotting. Skills are applied to structural and municipal drafting projects. An introduction to databases and Geographical Information Systems (GIS) is also included.

Students will adopt a process of self-learning which are vital to successful career as an engineering technologist and especially important with new information technologies. As such, an

important underlying outcome of this course is to form the habits and display the courage that leads to self-learning. Students will be encouraged to explore.

## 5 Intended Learning Outcomes

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

- Create, edit and apply advanced CAD objects such as: annotation styles, attributed blocks, dynamic blocks, cross-referencing.
- Follow prescribed drafting standards for municipal and structural drawings.
- Assemble a complex drawing set within computer aided design (CAD) software utilizing multiple layouts, scales and sheet sets.
- Describe the structure and application of a relational database and utilize basic database components such as forms, tables, queries and reports.
- Describe the structure and application of Geographical Information Systems (GIS) and utilize basic GIS tools to manipulate and report on spatial data.

## 6 Course Content and Schedule

<i>Class</i>	<i>Topic</i>
1	Introduction and AutoCAD Review Structural Drafting and Plan Production Using AutoCAD 2D
2	Engineering Drafting and Plan Production Continued Using AutoCAD 2D
3	Structural Drafting: Structural Steel Detailing
4	Structural Steel Detailing Continued: Using AutoCAD 3D
5	Structural Drafting: Reinforced Concrete Details Advanced AutoCAD
6	Municipal and Transportation Drawings
7	Municipal and Transportation Drawings Continued
8	Municipal and Transportation Drawings Continued
9	CADD Standards
10	Databases
11	Geographic Information Systems – Sourcing Data Types
12	Geographic Information Systems – Spatial Analysis
13	Geographic Information Systems – Webmaps
14	Final Exam

## 7 Basis of Student Assessment

<i>Component</i>	<i>Weighting %</i>	<i>Comments</i>
Assignments	10%	In Class Exercises
Labs	50%	Major Lab Submissions
Final Exam	30%	The final exam will be held during the last week of classes. It will be a combined written and practical (computer based). The final exam will be open 'book'
Midterm	10%	Practical Topics on Civil Engineering Plan Production
TOTAL	100%	

## 8 Required Materials

- a) Computer using AutoCAD Student Version
- b) Mic and WebCam
- c) Texts – N/A
- d) Other – N/A

## 9 College Supports, Services and Policies



### Immediate, Urgent, or Emergency Support

If you or someone you know requires immediate, urgent, or emergency support (e.g. illness, injury, thoughts of suicide, sexual assault, etc.), **SEEK HELP**. Resource contacts @ <http://camosun.ca/about/mental-health/emergency.html> or <http://camosun.ca/services/sexual-violence/get-support.html#urgent>

### College Services

Camosun offers a variety of health and academic support services, including counselling, dental, disability resource centre, help centre, learning skills, sexual violence support & education, library, and writing centre. For more information on each of these services, visit the **STUDENT SERVICES** link on the College website at <http://camosun.ca/>

### College Policies

Camosun strives to provide clear, transparent, and easily accessible policies that exemplify the college's commitment to life-changing learning. It is the student's responsibility to become familiar with the content of College policies. Policies are available on the College website at <http://camosun.ca/about/policies/>. Education and academic policies include, but are not limited to, Academic Progress, Admission, Course Withdrawals, Standards for Awarding Credentials, Involuntary Health and Safety Leave of Absence, Prior Learning Assessment, Medical/Compassionate Withdrawal, Sexual Violence and Misconduct, Student Ancillary Fees, Student Appeals, Student Conduct, and Student Penalties and Fines.

## 10 Grading System

- Standard Grading System (GPA)*
- Competency Based Grading System*

See [Camosun Grading Policy E-1.5](#)

## 11 Class Policies

- Full attendance at the online lab sessions is expected. If you plan to miss a lab session you must notify the instructor prior to the lab. If you miss a lab session without prior notice, you must contact the instructor as soon as possible after the missed lab.
- Unless otherwise noted, assignments are to be done individually and are due at the start of the next lab session after the date the assignment was assigned.
- Late assignments will have 10% deducted. Assignments submitted after graded assignments have been returned are worth 0.
- You must complete all assignments prior to the final exam to be permitted to write the final exam
- You must pass the final to pass the course
- A minimum of 60% (C) must be achieved in the course in order to gain credit for the purpose of continuing to courses for which this course is a prerequisite.