



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

CIVE 282
Managing Construction Projects
2018 - WINTER

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 | Robin Ley |
| Office hours | Mondays 12:00 – 1:00, Thursdays 12:00 – 1:00, or by appointment |
| Location | TEC 267 |
| E-mail | LeyR@camosun.ca |
| Website | http://civil.camosun.bc.ca/student/ |

2 Prerequisites and Corequisites

CIVE181,

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) |
|--------------|---|
| 3 | 14 |
| | 14 |
| 1 | 14 |
| | |
| | |
| | |

4 Short Description

This course introduces students to aspects of civil and contract law, codes, regulations and bylaws as they apply to the contracting process. Contract documents, tendering procedures and contract administration is included. Computer software will be used for critical path analysis, scheduling the construction process, cost control, quantity estimating and quality control procedures. Construction site safety and security will be covered.

5 Intended Learning Outcomes

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

- Apply the legal principles of contract law, intellectual property law and tort liability to the engineering profession.
- Compare types of laws and the relationships between Federal, Provincial and local jurisdictions.
- Discuss and interpret the acts, regulations and code of ethics that govern professional engineers and technologists.
- Compare the various types of business relationships typically found in design and construction.
- Prepare a set of construction contract documents and administer the bidding process.
- Perform contract administration duties such as: site inspections; progress payments; change orders; extras; and record keeping.
- Prepare project schedules and manage resources using project management software.
- Perform a quantity take-off, apply unit prices, and overhead and profit amounts to develop a construction cost estimate or bid amount.
- Evaluate equipment for a job based on productivity requirements.
- Describe safety requirements on the jobsite and in the workplace including general requirements, Workplace Hazardous Materials Information System (WHMIS), transportation of dangerous goods, traffic control, confined space entry and fall arrest.

6 Course Content and Schedule

- a) Refer to the course website for updates to the course schedule.
- b) This course consists of 3 hours of lecture per week and 1 hour of lab:
 - i. Lectures are Mondays 2:30 – 3:50 (TEC 177) and Thursdays 2:30 – 4:00 (TEC 177)
 - ii. Section A labs take place Tuesday 8:30 – 9:30 (TEC 145)). Section B labs take place Thursdays 1:30 – 2:30 (TEC 151), Section C labs take place on Wednesdays 10:00 – 11:00 (TEC273).
- c) Midterm exam will take place in week 8 on February 26, 2017. Date of final exam will be announced at a later date but will occur during the exam weeks.

7 Basis of Student Assessment

| <i>Component</i> | <i>Weighting</i> | <i>Comments</i> |
|------------------|------------------|--|
| Assignments | 20% | Assignments, submitted individually, unless otherwise noted. Four substantial assignments are anticipated. Due dates will be identified for each assignment. |
| Mid-Term Exam | 20% | Closed book , 1.5-hr duration, held during week 8. |
| Final Exam | 40% | Closed book , 3-hr duration, held during the exam week. |
| Labs | 20% | Lab assignments, submitted individually, unless otherwise noted. Three lab assignments are anticipated. Due dates will be identified for each lab. |
| TOTAL | 100% | |

8 Recommended Materials to Assist Students to Succeed Throughout the Course

- a) Texts –
- b) Texts - There is no text for this course.
- c) Other:
 - i. Broom Z., Fell P., *CIVE282 Managing Construction Projects – Course Notes, Camosun College, 2018* (handouts posted to website)
 - ii. Other references and handouts posted on the course web site

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

- Assignments and labs are due at the start of the applicable lecture or lab period, unless otherwise noted. Late assignments and labs will not be accepted without an academic concession and prior approval from the instructor. Assignments and labs not submitted will receive a zero.
- You must achieve 50% on the final exam and a weighted average of 50% on the mid-term and final exams in order to pass the course.
- Attendance for the lectures is expected and labs is mandatory. If you plan to or do miss a lecture or lab you must speak to the instructor.