CIVE 370 – Construction and Project Management

Term – FALL 2015 (201509)

Instructor
Dr. Scott Iverson
Phone: 250.721.8741
E-mail: siverson@engr.uvic.ca

Office Hours
Days: Mondays 2:40 – 3:30
and Thursdays 11:40 – 12:30
Location: EOW 503

Course Objectives
To advance our awareness and understanding of management techniques designed to optimize the variables of cost, time and resources in the domain of construction. And to encourage you to be active in the process of sustainable construction and engineering ethics.

Learning Outcomes
After successfully completing this course you will be able to:

1. Demonstrate facility with the concept of critical path method for project management
2. Understand how a project estimate is developed and used
3. Calculate the engineering economic impacts of design decisions during the construction process
4. Formulate & describe the structure of construction trade-off analyses to manage time & cost of activities

Syllabus
Schedule (tentative):

| Sep 10 | Introduction to construction project management and group project |
| 14    | Construction practices – ch 1 |
| 17    | Systematic Project Management – ch 2 |
| 21    | Engineering economics – present worth analysis |
| 24    | Engineering economics – gradient series |
| 28    | Engineering economics – decision trees, risk and uncertainty |

| Oct 01 | Engineering economics – benefit/cost analysis |
| 05    | Project estimating – ch 3 + the policy delphi technique |
| 08    | Project planning – ch 4 + Quiz #1 |
| 12    | Thanksgiving Day – classes cancelled |
| 15    | Simulation of risk |
| 19    | First project presentations (scenario) |
22 1st project presentations continued
26 Project scheduling concepts – ch 5
29 Production planning – ch 6

Nov 02 Managing time – ch 7
05 Resource Management – ch 8
09 Reading Break – Classes cancelled
12 Project Scheduling Applications – ch 9
16 Project coordination – ch 10 + Quiz #2
19 Project cost system – ch 11
23 Project Financial Management – ch 12
26 Second project presentations (final results & trades study)
30 Second project presentations continued

Dec 03 Review + Project Reports (hard copies) due by 5:00 PM in my office + 2nd project presentations continued

CIVE 370: A01 / CRN 10624 TA (email): Shahab Yeylaghi (shahaby@uvic.ca)
Lecture Days:  Mon, Thur
Time:  13:00 – 14:20
Location:  COR B143

Required Text
Title:  Construction Project Management: A Practical Guide to Field Construction Management, 6th edition
Author:  S. Sears, G. Sears, Clough, Rounds, Segner
Publisher:  John Wiley & Sons, Inc.
Year:  2015

Assessment:
15 In-class exercises (subtract 3-lowest marks) = 24% (2% each x 12)
Quiz #1 = 15%
Quiz #2 = 15%
1st Presentation = 11%
2nd Presentation = 15%
Final Report = 20%

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.

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
e-mail or the Chair’s Secretary to set up an appointment.

Accommodation of Religious Observance
See entry in current Undergraduate Calendar
Policy on Inclusivity and Diversity
See entry in current Undergraduate Calendar

Standards of Professional Behaviour
You are advised to read the Faculty of Engineering document Standards for Professional Behaviour in current Undergraduate Calendar, 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 entry in current Undergraduate Calendar for the UVic policy on academic integrity.

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.