

CEE4408-2 Construction Project Management (2013, 1st semester)

Course Contents: This course is designed to introduce students various aspects of project management. Upon successful completion of this course students should be able to understand:

- how a project is formed and conducted,
- major planning and scheduling methods,
- major estimating and cost control methods,
- important roles of project management, and
- other issues related to project management.

Course Objectives: To be determined by the class and **refined as the course evolves.**

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Lectures: Tue. 4:00 – 5:50 pm; Thr. 10:00 – 10:50 a.m. (Room: B043)

Website: When announced, class materials can be downloaded from aim.yonsei.ac.kr

Text: The following texts will be used as a reference in the course. But there is no required text book.

Construction Management, 4th Edition by Daniel W. Halpin and Bolivar A. Senior, ISBN 978-0-470-50593-9
Project Planning, Scheduling, and Control in Construction by Calin M. Popescu, ISBN 0-471-02858-4

Course Schedule: A tentative schedule of topics to be covered is attached.

Grading: Grade components will be weighted as follows in computation of the final course grade:

Homework	30%
Midterm exam	20%
Term project	50%

Policies: Academic Dishonesty

- The University's regulations (Code of Student Behaviour) apply.
- No plagiarism.
- No cheating.

Homework

- Homework should be legible and well organized to receive full credit.

Class Participation and Attendance

- As the University's regulations stated, students will serve their interests best by regular attendance. Those who choose not to attend must assume whatever risks are involved.

Class Schedule:

No.	Date	Topic
1	2013-03-04-2013-03-10	Construction industry and project
2	2013-03-11-2013-03-17	Legal structure
3	2013-03-18-2013-03-24	Construction contracts
4	2013-03-25-2013-03-31	Planning
5	2013-04-01-2013-04-07	Scheduling 1
6	2013-04-08-2013-04-14	Scheduling 2
7	2013-04-15-2013-04-21	Cost estimating
8	2013-04-22-2013-04-28	Mid-term exam
9	2013-04-29-2013-05-05	Cost estimating
10	2013-05-06-2013-05-12	Cost control
11	2013-05-13-2013-05-19	Primavera
12	2013-05-20-2013-05-26	Cash flow analysis 1
13	2013-05-27-2013-06-02	Cash flow analysis 2
14	2013-06-03-2013-06-09	Project funding
15	2013-06-10-2013-06-16	Issues during construction phase
16	2013-06-17-2013-06-23	Term project presentation

Term Project:

Objective: Apply knowledge gained in CEE4408 to preliminary observation and analysis of a real life construction project.

Choose a real life construction project with more than \$50,000 value (ongoing, finished, or future) to study. It is not necessary to enter the construction site to complete the report. If you do wish to enter the site, you must receive permission from the prime contractor or whoever has site access authority. You must also take proper safety precautions which would normally include construction footwear, a hard-hat, and additional equipment in some cases.

Submit a report including:

- A brief description, including photographs and/or drawings, of the project
- Estimated scope and cost of the project
 - Conceptual estimate
- Project schedule
 - CPM precedence diagramming method
- Contractual structure
- Economic feasibility analysis
- Other interesting findings

Students must work in-groups to produce the term project. The selection of the groups is students' responsibility; Each group should have a maximum of three students. One page interim report that shows the construction project identified and names of group members should be presented in the class on Apr. 4, 2013.

The report with a maximum of 6000 words excluding figures and appendices must be electronically submitted by Jun. 12, 2013. The project will be presented to the class. Grades will be based on content and presentation.