

## PROJECT MANAGEMENT

### Attività didattica: contenuti

This course is intended to introduce students in the Corso di Laurea Triennale in Ingegneria Edile to the organization, management, and administrative functions on building construction projects including a hands-on and extensive case study of a commercial construction project, cost control, and introduction to the concepts of Value Engineering, Partnering, Total Quality Management, Lean Construction, and LEED.

In addition, this course will introduce students to the concepts of risk identification, mitigation and management that will be applied to the case study.

As a result of satisfactorily completing this course, students will demonstrate:

- Proficiency in:
  - o Roles and organization of the construction team
  - o Risk identification, mitigation and management
  - o Project delivery methods
- Competency in:
  - o Pre-project planning and startup
  - o Construction contract administration and change management
  - o Financial project management
- Awareness of:
  - o Sustainability issues related to the built environment
  - o Project management computer applications
  - o New trends in the construction industry (e.g., lean construction, integrated project delivery, LEED, etc.)

### Attività didattica: metodi

This course is being offered in a learning, rather than a teaching environment. That means that the responsibility of the professor is to create and facilitate a rich and varied learning environment within which the student has great opportunity to learn. The student has the responsibility to tailor the learning experience to maximize her/his learning. The means by which the student learns, together with the breadth and depth of the learning is defined by the learner. The professor suggests that each learner takes full advantage of the opportunity provided to prepare for a professional career in the architecture/engineering/construction (AEC) industry. The course will be delivered in a lecture format where in-class and out-of-class active participation by students will be encouraged. Dr. Migliaccio will utilize the UW online classroom management system to create discussion board that students will utilize to post questions on reading material in advance. Students will also be encouraged and rewarded to answer questions by other students. In addition to the lectures, Dr. Migliaccio plans to schedule 2/3 sessions that will be designed to help student teams identifying a topic for their project, peer-reviewing draft report and practicing the presentation. Individual student presentations and a team project will reinforce concepts

learned in class, but it will also allow students to refine written and oral communications that are indispensable skills within the construction industry.

**Periodo di svolgimento:** Da: 01/04/2014 a: 31/07/2014

### Attività didattica:

Numero ore di lezione: 36

Numero ore di laboratorio/esercitazione: 9

### Attività pratiche:

Submittals Students are expected to complete all assignments and submit them to the instructor by the time and dates specified in the class schedule on the Catalyst website. Weekly Quizzes (electronic) can be found on the course website and will be available within 3 days from the due date. These quizzes are multiple choice and True/False review questions and are filled out with the Catalyst online system. The Problem Sets are due at 8am the day listed in the schedule. Late Problem Sets will not be accepted as the solutions are published. Solutions to the problem sets will be available electronically.

Participation exercises will be assigned throughout the course. These include:

1. Online introduction statements
2. Brief response in-class exercises – details in lecture
3. Posts to Online Weekly Discussion Board
4. Guest Lecture Summaries

Team Project: Students will need to work in teams on a project. The students are to analyze risks on a specific project, and interview industry practitioners to gain insight on industry risk management approaches. The team will develop a report and presentation with their findings. Students should prepare their report and presentation assuming that these products are for their upper management.

Assessment

- Midterm Exam: In class, closed book (2 pages of notes permitted), calculator, no laptop, multiple choice, true/false and short answer questions
- Final Exam: Cumulative, in class, closed book (3 pages of notes permitted), calculator, no laptop, multiple choice, true/false and short answer questions.