

Fall 2024

CE 610 - 101: CONSTRUCTION MGT

Chrissa Roessner

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CEE 610 – 101: Construction Management

(3 credits)

Lectures Friday, 6:00 pm – 8:50 pm
 CKB 206

Instructor Chrissa D. Roessner, P.E. Office Hours: Fridays 5:20 pm – 6 pm
 Colton Hall Email professor for an appointment
 cdr44@njit.edu

Required Textbook

Not applicable.

Other Recommended Texts & Reading

As posted in Canvas throughout the semester.

Course Description

Managerial aspects of contracting. Study of an individual firm in relation to the entire construction industry. Topics include contractor organization and management, legal aspects of construction, and financial planning.

POLICIES & PROCEDURES

Academic Integrity: It is expected that NJIT's University Code on Academic Integrity will be followed in all matters related to this course. Refer to NJIT's Dean of Students website to become familiar with the Code on Academic Integrity and how to avoid Code violations.

<https://www.njit.edu/policies/sites/policies/files/academic-integrity-code.pdf>

Communication: All communication from the professor to the students will be through Canvas or campus email. The same is expected of the students when communicating with the professor. Weekly course announcements will be posted / emailed utilizing Canvas. Students are strongly encouraged to review these messages carefully.

Lectures/Class: Students are expected to attend every class session in-person, as scheduled. Attendance will be taken. Students are responsible for any missed work, and any absences resulting in missed work must be excused by the Dean of Students. Additional course content will be made available through Canvas, as appropriate. Students are responsible for all course content regardless of how it is presented. Students must check Canvas frequently to check for new modules and content.

Quizzes and Exams: Students will take all quizzes and exams in-person as scheduled. All quizzes and exams will be available for student review but will be kept / maintained by the professor. Students are permitted to take notes (**not photographs or videos**) when reviewing quizzes in class. There will be NO makeup quizzes or exams unless a result of an absence that is further substantiated and approved by the Dean of Students Office.

Course Schedule:

Class Meeting Date	Topic	Assignments / Notes
09/06/2024	Introductions / Syllabus / Integrity Construction Project Management	
09/13/2024	Specifications & Contracts Business Structures & Joint Ventures	Guest Speaker Anthony Giuriceo, Esq.
09/20/2024	Project Delivery Methods & Bidding Financing & Insurance	Quiz #1
09/27/2024	Change Management	
10/04/2024	Construction Administration	Quiz #2
10/11/2024	Contractor & Owner Personnel Record Keeping	
10/18/2024	Midterm	Midterm Exam
10/25/2024	Construction Safety	
11/01/2024	Cost Management Materials Management	
11/08/2024	Time Management	Quiz #3
11/15/2024	Special Topic: Shotcrete	Guest Speaker Frank Townsend, Patriot Shotcrete
11/22/2024	Quality Management	Quiz #4
11/27/2024	Claims & Dispute Resolution Negotiation Skills Risk Management	Guest Speaker Anthony Giuriceo, Esq.
12/06/2024	Best Practices	
TBD	Final Exam	Final Exam

Note: Friday classes meet on Wednesday, November 27, in advance of Thanksgiving.

Calculation of Course Grade: A weighted average grade will be calculated as follows:

<u>Breakdown</u>		<u>Scale</u>	
Quizzes	40%	A	100-89
Midterm	30%	B+	88-83
<u>Final</u>	<u>30%</u>	B	82-78
Total	100%	C+	77-70
		C	69-65
		F	Below 65

Instructor Commitment: You can expect the Instructor to be courteous, punctual, organized, and prepared for lecture and other class activities; to answer questions clearly; to be available during office hours or to notify you beforehand if office hours are moved; to provide a suitable guest lecturer or pre-recorded lecture when they are traveling or unavailable; and to grade uniformly and consistently.

Students with Documented Disabilities: NJIT is committed to providing students with documented disabilities equal access to programs and activities. If you have, or believe that you may have, a physical, medical, psychological, or learning disability that may require accommodations, please contact the Coordinator of Student Disability Services located in the

Center for Counseling and Psychological Services, in Campbell Hall, Room 205, (973) 596-3414. Further information on disability services related to the self-identification, documentation and accommodation processes can be found on the webpage at: (<http://www.njit.edu/counseling/services/disabilities.php>)

CEE Mission, Program Educational Objectives and Student Outcomes

The mission of the Department of Civil and Environmental Engineering is:

- to educate a diverse student body to be employed in the engineering profession
- to encourage research and scholarship among our faculty and students
- to promote service to the engineering profession and society

Our Program Educational Objectives are reflected in the achievements of our recent alumni:

1. Engineering Practice: Alumni will successfully engage in the practice of civil engineering within industry, government, and private practice, working toward safe, practical, resilient, sustainable solutions in a wide array of technical specialties including construction, environmental, geotechnical, structural, transportation, and water resources.
2. Professional Growth: Alumni will advance their technical and interpersonal skills through professional growth and development activities such as graduate study in engineering, research and development, professional registration and continuing education; some graduates will transition into other professional fields such as business and law through further education.
3. Service: Alumni will perform service to society and the engineering profession through membership and participation in professional societies, government, educational institutions, civic organizations, charitable giving and other humanitarian endeavors.

Our Student Outcomes are what students are expected to know and be able to do by the time of their graduation:

1. an ability to identify, formulate and solve complex engineering problems by applying principles of engineering, science and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety and welfare, as well as global, cultural, social, environmental and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental and societal contexts
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies