

CE 410 -101 – CONSTRUCTION ESTIMATING AND SCHEDULING

Department of Civil and Environmental Engineering

New Jersey Institute of Technology

Fall 2017

Time & Location Tuesday 6:00-9:05PM, CKB 120

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 862-253-1919

Office Hours Thursday 5:30-8:00PM, COLT 261

Prerequisites CE 210, Construction Materials & Procedures

Text Estimating Construction Costs, 6th Edition
 Robert L. Peurifoy and Garold D. Oberlender
 McGraw Hill, ISBN No. 978-0-07-339801-3

Course Description Quantity take off, cost estimate and CPM computer analysis of typical building or highway projects. A study is made of construction project organization, contract requirements and management control techniques with an introduction to computer applications (Microsoft Project).

Wk	Date	Topic	Wk	Date	Topic
1	9/5	Introduction Estimating Overview Scheduling Overview	7	10/17	Drainage & Utilities Total Cost of Engineering Projects
2	9/12	Contract Drawing Review Industry Standards Activity Relationships	8	10/24	<i>Midterm Examination</i>
3	9/19	Bid Documents & Preparation Estimating Process Conceptual Cost Estimating	9	10/31	Project Control Principles Network Modeling
4	9/26	Cost of Construction Labor & Equipment Construction Safety Handling and Transporting Material	10	11/7	Construction Sequencing
5	10/3	Earthwork and Excavation	11	11/14	<i>Thursday Classes Meet</i>
6	10/10	Highways & Pavements Portland Cement Concrete Asphalt Concrete	12	11/21	Contract Requirements & Provisions
			13	11/28	Critical Path Method
			14	12/5	Monitoring & Control Change Management
			15	12/12	Cost Schedule Integration
			16	12/19	<i>Final Examination</i>

General Notes Lecture slides will be uploaded to Moodle after lecture.
 No late assignments accepted. No use of electronic devices.
 The NJIT Honor Code will be upheld in this course. Students participating in this course agree to conform to, abide by, and agree to the sanctions of the University Code on Academic Integrity.

Grading	Participation	5%	Midterm Examination	25%
	Assignments	13%	Term Project	25%
	Quizzes	12%	Final Examination	20%