

Spring 2022

## **CE 616-852: Construction Cost Estimating**

Godson Oraedu

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### **Recommended Citation**

Oraedu, Godson, "CE 616-852: Construction Cost Estimating" (2022). *Civil and Environmental Engineering Syllabi*. 608.

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**NEW JERSEY INSTITUTE OF TECHNOLOGY**  
**Department of Civil &**  
**Environmental Engineering**

**CE 616 CONSTRUCTION COST ESTIMATING**  
**COURSE SYLLABUS**  
**SPRING 2022**

**Time**           **Online – CE 616 Tier 852**  
**Instructor**   **Adj. Prof. Godson Oraedu**  
**Textbook**     **Estimating in Building Construction, 9<sup>th</sup> Edition - *Steven Peterson & Frank***  
                          ***Dagostino (Pearson)***

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973-568-3715 **Tel.**

**Course Outline**

<b>Session</b>	<b>Topic</b>	<b>Chapter</b>
Week 1 (1/18 to 1/24)	Welcome, Introduction to Estimating and Contract Procurement	1, 2, 4
Week 2 (1/25 to 1/31)	Project Scheduling and the Bid Documents	3, 6
Week 3 (2/01 to 2/07)	Sitework & Bulk Excavation	10
Week 4 (2/08 to 2/14)	Concrete, Foundations and Masonry Systems	11, 12
Week 5 (2/15 to 2/21)	Metals and Structural Steel	13
Week 6 (2/22 to 2/28)	Wood Framing, Rough and Finish Carpentry and Millwork	14
Week 7 (3/01 to 3/07)	Roof System, Thermal Insulation, Windows and Doors. - <b>Term Project release (for bid proposals)</b>	15, 16
<b>Week 8 (03/12)</b>	<b>MIDTERM EXAM</b>	
<b>03/14 to 03/19</b>	<b>Spring Break</b>	
Week 9 (3/22 to 3/28)	Interior Finishes and Specialties	17
Week 10 (3/29 to 4/04)	MEP Systems, Review of Subcontractor Bids and Proposals	18, 19, 20
Week 11 (4/05 to 4/11)	Non-Union, Prevailing Wage, Union Rates, Productivity	7
Week 12 (4/12 to 4/18)	General & Supplementary Conditions	3
Week 13 (4/19 to 4/25)	Work Sessions (bid preparations)	
Week 14 (4/26 to 5/02)	Bids due / Bid Opening	
Week of 05/04 & 05/05	No Classes – Reading days	
<b>Week 15 – 05/08</b>	<b>FINAL EXAMINATION</b>	

## **COURSE ORGANIZATION**

### **Grading**

93 – 100	A
90 – 92	B+
83 – 89	B
80 – 82	C+
70 – 79	C
60 – 69	D
< 60	F

<b><u>Grading</u></b>	<b><u>% (approx.)</u></b>
Midterm	25%
Participation / Assignments	20%
Bid Proposal	30%
<u>Final Exam</u>	<u>25%</u>
<b>Final Grade</b>	<b>100%</b>

### **Academic Integrity Statement**

Students participating in this class agree to conform to, abide by, and agree to the sanctions of the University Code of Academic Integrity. The code is available for review on the NJIT website.

### **Technology Requirements**

Students may need a high-speed internet connection, a webcam (internal or external), and a computer or laptop with windows or apple Operating System. Examination proctoring may require videotaping and recording during the exam session.

### **Examinations**

All examinations will be conducted online.

### **Office Hours:**

Tuesdays 6:00 PM to 8:30 PM and by Appointment.