

**Department of Civil & Environmental Engineering
New Jersey Institute of Technology**

CE 414
Engineered Construction
Spring 2016

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Text: Ratay, Handbook of Temporary Structures in Construction, 2nd Edition. Published by:
McGraw Hill ISBN 0-07-051261-2

Session	Topic	
1/22/16	Welcome, Introduction to Engineered Construction Loads & Properties of Material	1, 2 & 4
1/29/16	Construction Safety	3
2/5/16	Construction Equipment	5 & 6
2/12/16	Forms, Formwork & Shoring Design	16 & 17
2/19/16	Design Build Contracts, Scaffolding	15
2/26/16	Highway & Bridge Engineering	14 & 20
3/4/16	Underpinning, Tunnel and Shaft Engineering	12 & 22
3/11/16	Midterm	11
3/18/16	Spring Break	
3/25/16	Good Friday – No Class	
4/1/16	Earth Pressures & Loads Braced Excavations	8
4/8/16	Design of Braced Excavations	9
4/15/16	Excavation Supports & Dewatering	Handouts
4/22/16	Temporary Structures in Repair & Restoration	21
4/29/16	Special Requirements, Monitoring	Handouts
5/3/16	Site Visit	
5/6/16	Final Examination	

Course Organization

Grading

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

Homework (2 @ 10% ea.)	20%
Quizzes (2 @ 10% ea.)	20%
Midterm	30%
<u>Final Examination</u>	<u>30%</u>
Total	100%

Academic Integrity Statement:

The 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.

Office Hours: By Appointment