



## CE 711 Productivity Improvement in Construction Summer 2018

**Professor Alan Slaughter, P.E., P.P.**

Course Administration and Email: moodle2.njit.edu

**Text:** “Productivity Improvement for Construction and Engineering” Author: J.K. Yates, Ph.D.;  
Publisher: ASCE Press  
ISBN: 978-0-7844-1346-3

**Prerequisite:** CE 610 Construction Management

**Course Description:** Improved methods in construction; various techniques of work sampling and productivity measurement; and current innovations in the construction industry for increasing efficiency.

### **Course Outline:**

<b>Week/Date</b>	<b>Topic</b>	<b>Chapter</b>
1/ May 21	Introduction to Productivity	1
2/ May 28	A Look at the Construction Industry	3
3/ June 4	Analysis of Improvement Programs	2
4/ June 11	Human Impact and Safety	4
5/ June 18	Improvement Studies	5
6/ June 25	Data Analysis Methods	6
7/ July 2	<i>Midterm</i>	
9/ July 9	Eng. and Const. Improvement	8
10/ July 16	Computer Applications	9
11/ July 23	Computer Models	10
12/ July 30	Sustainability in Engineering Sustainable Construction Materials	12 13
13/ August 3	<i>Final</i>	

## **Term Projects**

A list of suggested topics will be provided. Students must select a project either from a list provided or some other source. On Week 4 or before, students will submit a one paragraph topic description on Moodle.

The project report will be **10** pages, including text, photos, drawings and the like. The report will be prepared in an organized and professional manner. (*Neatness counts*)

### **Important Notes:**

1. The NJIT Honor Code will be upheld in this course. Any violations will be brought to the immediate attention of the Dean of Students.
2. Any modifications or deviations to the syllabus throughout the semester will be made through consultation and agreement with the class.

### **Grade Percentages**

<b>Homework</b>	<b>15%</b>
<b>Midterm</b>	<b>25%</b>
<b>Term Paper</b>	<b>30%</b>
<b>Final</b>	<b><u>30%</u></b>
<b>Total</b>	<b>100%</b>

### **Grades**

<b>93-100</b>	<b>A</b>
<b>90-92</b>	<b>B+</b>
<b>83-89</b>	<b>B</b>
<b>80-82</b>	<b>C+</b>
<b>70-79</b>	<b>C</b>
<b>60-69</b>	<b>D</b>
<b>&lt; 60</b>	<b>F</b>

Homework is due the Monday following the week it was assigned. I reserve the right to reduce a grade if the assignment is late.