

**M.E. Rinker School of Construction Management
University of Florida
Gainesville, FL 32611-5703 USA**

**BCN 5470 Construction Productivity and Methods Improvement
Tuesday Periods 2-3, Thursday Period 3
Rinker 215**



COURSE DESCRIPTION

The objective of this course is examine the factors that impact construction productivity, the use of management tools to develop construction productivity improvement programs, methods for performing construction loss calculations, and strategies for developing productivity improvement programs for the construction environment. Higher productivity drives greater profitability by improving cost and schedule performance. Throughout the course, emphasis will be placed on techniques and methods that can manage and increase the efficiency of cost and schedule parameters. This course is designed to provide guidance to an owner, contractor, subcontractor, or construction manager on methods and processes by which construction productivity can be

COURSE MATERIALS

This course has two required textbooks and a number of published papers.

Textbooks

Construction Productivity: Measurement and Improvement,
James J. Adrian, Champaign, IL,
Stipes Publishing, L.L.C., 2004.
Available from amazon.com.

Construction Productivity- A Practical Guide for Building and Electrical Contractors, Ed: Eddy M. Rojas, J. Ross Publishing, 2008.

effectively managed and increased.

COURSE ASSIGNMENTS

1. Quizzes: Each week you will have a quiz on the module lecture power point or reading assignment. The quiz will be 10 questions and you will have 25 minutes to complete it. Quizzes are open notes. Each quiz will be worth 50 points. There will be 12 weekly quizzes and Quizzes will open on Sunday of each Week at 7:00 pm EST for 25 minutes.

2. Assignments: Each week you will have an assignment which may be an essay, PowerPoint, case study or written responses to questions posed. There will be 10 weekly assignments worth 50 points each. The requirements for each assignment will be posted in the weekly modules.

3. Semester Research Project: You will be assigned a Semester Research paper on a topic posted on the course Canvas site. This paper is worth 300 points. You will also be required to produce a narrated PowerPoint presentation of your paper. This presentation will be worth 100 points.

Attendance:

There will be no mandatory attendance requirements for this course.

4. Grading: The final student grade will be a letter grade based on the percentage of Total Points Achievable. The grades based on the percentage are as follows:

A	93 – 100
A-	90 – 92.9
B+	87 – 89.9
B	83 – 86.9
B-	80 – 82.9
C+	77 – 79.9
C	73 – 76.9
C-	70 – 72.9
D+	67 – 69.9
D	63 – 66.9
D-	60 – 62.9
E	Less than 60

Points Available:

1. Quizzes 12 X 50 pts	600 pts
2. Assignments 10X50 pts	500 pts
3. Semester Project	300 pts
4. PowerPoint	100 pts
Total Points	1500

Instructor:

Douglas Lucas +1 352 273 1168

COURSE MODULES

- Module 1 – Productivity – The Elusive Factor
- Module 2 – Factors Impacting Construction Productivity
- Module 3 - The Project Owner and Productivity
- Module 4 – The Design Team and Construction Productivity
- Module 5 – The Contractor and Productivity
- Module 6 – Quantitative Management and Construction Productivity
- Module 7 – Managing Subcontractors Productively
- Module 8 – Quantifying Construction Productivity Loss
- Module 9 – The Field Management and Worker Productivity
- Module 10 – Equipment and Construction Productivity
- Module 11- Establishing a Productivity Improvement Strategy
- Module 12 – Technological Advances and Construction Productivity