

THREE RIVERS COMMUNITY COLLEGE  
**FUNDAMENTALS OF CONSTRUCTION MANAGEMENT CTC K227**

Spring Semester 2011, Tuesday/Thursday 1 – 2:15pm

Instructor: Charles Canavan, AIA, ph \_\_\_\_\_ email [Ccanavan@trcc.commnet.edu](mailto:Ccanavan@trcc.commnet.edu)

Grade: Quizzes (4) 50%                      Mid term 25%                      Final 25%

Course Objectives:

**Fundamentals of Construction Management:** Introduces the fundamental aspects of construction management to students in a broad format, covering topics that include understanding the design vision, establishing team expectations, project planning, scheduling, estimating, organizational forms, contracts and risk management.

Method: Lectures, Slide Lectures, Simulations, Class Discussion

Text: **Instructor Supplements**  
 Optional: Construction Management, Halpin & Woodhead

<u>Week 1</u> (1/25)	<b>Over-view</b> (Introduction) Industry Background	<u>Week 9</u> (3/22)	<b>Project Payments and Payout</b> Request for Payment Requisition
<u>Week 2</u> (2/01)	<b>Preconstruction Phases</b> Budgets, Planning & Value Engineering	<u>Week 10</u> (3/29)	<b>Equipment Management</b> Equipment Resources
<u>Week 3</u> (2/08)	<b>Construction Phases</b> Critical Path, Trades Coordination, etc.	<u>Week 11</u> (4/05)	<b>Equip. Productivity &amp; Material</b> Task & Equipment Matching
<u>Week 4</u> (2/15)	<b>Construction Contracts</b> Service Agreements, Prime & Subs	<u>Week 12</u> (4/12)	<b>Labor Relations/Management</b> Inter-personnel Coordination
<u>Week 5</u> (2/22)	<b>Construction Law</b> Legal Structure, Contractual Elements	<u>Week 13</u> (4/19)	<b>Microsoft Excel</b> Management Software
<u>Week 6</u> (3/01)	<b>Company &amp; Project Organization</b> Legal Structures	<u>Week 14</u> (4/26)	<b>In-class Movie</b> “Skyscraper”
<u>Week 7</u> (3/08)	<b>Spring Break</b> No Classes in Session	<u>Week 15</u> (5/03)	<b>In-class Movie</b> “Skyscraper” Cont’d ...
<u>Week 8</u> (3/15)	<b>Project Funding &amp; Cash Flow</b> Funding Sources & Disbursements	<u>Week 16</u> (5/10)	<b>Final Exam</b> (Cumulative)

COURSE REQUIREMENTS:

Notebook

Students will assemble a notebook, to be made up of handouts distributed at the beginning of each class. A 3” “*Slant-ring*” notebook with plastic sheet protectors is recommended – this will be a good resource for future reference.