**CE 501 Functions of the Constructor**  
*Fall 2010 Class Syllabus*

Class Day, Time: Wednesdays, 3:30 p.m. to 6:10 p.m.
Class Location: KAP 147
Instructor: Paul Giorgio
Work Phone: (213) 820-1306
Email: paulgiorgio@hotmail.com
Office Hours: TBD, Call or send an email to Mr. Giorgio with your questions, or to schedule an appointment
Blackboard: https://blackboard.usc.edu/

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**Course Outline**

The emphasis of the course focuses on construction management and the range of professional services available including program management, construction management, and general contracting. The course provides an overview of all phases of project development from concept through transfer of completed projects/services. Students will develop a comprehensive understanding of the varying approaches to construction projects, alternate project delivery methods and various organizational approaches between owner, architect/engineer, and constructor. Students will also develop a thorough understanding of construction terminology, contractual methodology/types, risk mitigation/management, labor/industrial relations, safety management, and project control systems to monitor/manage the cost, schedule, and quality of projects.

**Topics**

- Marketing and Proposal Preparation
- Project Development
- Contractual Relationships
- Contract Terms and Administration
- Project Delivery Methods
- Program Management
  - Construction Management and General Contracting
- CM/GC Selection Process
- Subcontractor Selection Process
- Bid Packages and Subcontractor Coordination
- Estimating
- Scheduling
- Document Control
- Cost Control
- Quality Assurance and Quality Control
- Configuration Management and Change Control
- Project Administration
- Project Controls
- Risk Management
- Categories of Risk
  - Types of Risk, and Risk Mitigation
- Risk Avoidance, Containment, Allowance
- Claims Prevention, Defense, and Dispute Resolution
- Insurance, Bonding, and Licensing
- Industrial Relations, and Construction Safety
- Union Construction, benefits and disadvantages
- Open Shop Construction, Benefits and Disadvantages
- Business Development
- Building Information Modeling
- Sustainability
# Fall 2010 Course Schedule

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<tr>
<th>Session</th>
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<th>REQUIRED READING Text Chapters</th>
<th>Topics of Discussion</th>
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<td>Aug. 25</td>
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<td>Class Introduction, Review of Course Syllabus, Introduction to Industry, Project Life Cycle</td>
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<td>Sept. 1</td>
<td>2, 3</td>
<td>Project Development and Organization; PM/CM/GC Functions and Responsibilities to Parties; Contract Methods and Types</td>
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<td>3</td>
<td>Sept. 8</td>
<td>7</td>
<td>Contract Structure, Terms and General Conditions, Contract Administration and Execution, Contracting Concepts and Applications, Guest Lecturer: TBD</td>
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<td>4</td>
<td>Sept. 15</td>
<td>3, 21</td>
<td>Program Management and Public Contracting, Guest Lecturer: Todd Cozolino (URS)</td>
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<td>5</td>
<td>Sept. 22</td>
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<td>CM/GC Selection Process</td>
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<td>6</td>
<td>Sept. 29</td>
<td>4, 5, 6</td>
<td>Sample Construction Project, Subcontractor Selection Process, Development of Bid Packages</td>
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<td>7</td>
<td>Oct. 6</td>
<td>18</td>
<td>Risk Management, Insurance, Bonding, BIM and Sustainable Construction Practices</td>
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<td>Oct. 13</td>
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<td>Claims, Liabilities, Dispute Process and Dispute Mitigation/Resolution, Guest Lecturer: Tomas Kuehn (URS)</td>
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<td>MID-TERM EXAM</td>
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<td>Return, Review Midterm, Handout Project Handout and Presentation, Project Administration and Project Controls</td>
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<td>11</td>
<td>Nov. 3</td>
<td>11, 13, 12</td>
<td>Estimating/Cost Management, Project Scheduling and Work Breakdown Structure</td>
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<td>12</td>
<td>Nov. 10</td>
<td>14–17, 19</td>
<td>Business Development, Marketing and Preconstruction Services; Value Engineering, Quality Assurance/Control, Building Commissioning, Labor Relations and Project Safety, Guest Lecturer: TBD</td>
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<td>13</td>
<td>Nov. 17</td>
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<td>Advanced Topics: Current Trends and Alternate Project Delivery Methods, etc., Course Evaluation, Guest Lecturer: TBD</td>
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<td>14</td>
<td>Nov. 24</td>
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<td>Thanksgiving, National Holiday</td>
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<td>Dec. 1</td>
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<td>PRESENTATION OF TEAM TERM PROJECTS</td>
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Term Projects

The term project will be a group project, including an oral and written presentation, in which student teams will be competing amongst each other to be the successful bidder for a multi-million dollar construction project.

- Team names and team members must be submitted by **November 3, 2010**.
- Term projects are due **December 1, 2010 at 3:30PM**.

Make-Up Lectures and Exams

- Make-up lectures will not be given. Students will be responsible for obtaining lecture information from fellow students.
- Make-up exams will be given with special consideration only.

Grading Exams, Project/Paper

- Grading Weights:
  - 30% Mid-Term Exam
  - 30% Term Project
  - 40% Comprehensive Final Exam
- Exams will consist of problems and written response from the textbooks, as well as lecture materials and homework assignments.
- Extra Credit work will not be allowed.
- All USC policies are adhered to, including those on cheating.

Statement on Academic Integrity

USC seeks to maintain an optimal learning environment. General principles of academic honesty include the concept of respect for the intellectual property of others, the expectation that individual work will be submitted unless otherwise allowed by an instructor, and the obligations both to protect one’s own academic work from misuse by others as well as to avoid using another’s work as one’s own.

All students are expected to understand and abide by these principles. **SCampus**, the Student Guidebook, contains the Student Conduct Code in Section 11.00, while the recommended sanctions are located in Appendix A: [http://www.usc.edu/dept/publications/SCAMPUS/gov/](http://www.usc.edu/dept/publications/SCAMPUS/gov/). Students will be referred to the Office of Student Judicial Affairs and Community Standards for further review, should there be any suspicion of academic dishonesty. The Review process can be found at: [http://www.usc.edu/student-affairs/SJACS/](http://www.usc.edu/student-affairs/SJACS/).

Statement for Students with Disabilities

Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved accommodations can be obtained from DSP. Please be sure the letter is delivered to me (or to TA) as early in the semester as possible.

DSP Contact Information

- Office Location: STU 301
- Open: 8:30 a.m. until 5:00 p.m., Monday through Friday.
- Phone number: (213) 740-0776