Instructor:
Lucio Soibelman
e-mail: Soibelman@usc.edu
Office: KAP 210-A
Office Hours: Monday/Wednesday 2:00 – 3:00 PM

Course Description:
History of civil engineering; introduction to the synthesis and design of systems dependent upon civil engineering technology; the structuring, modeling, and simulation of such systems.

Class Schedule: The class is scheduled to meet on Monday and Wednesday 9:00 to 9:50 in GFS 101

Required for: BSCE, BSCE Structural, and BSCE Building Science

Prerequisites and Co-requisites: None

Assignments, Case Studies, Reports, Essays, and Presentations: During the semester students will work on several assignments.

Website: This course has a website on blackboard (https://blackboard.usc.edu)

Presence: Although it is not required, most students send their professor a brief e-mail to explain their absence in advance. Students who repeatedly arrive late to the lecture will have their participation grade lowered because they will not be able to fully participate in the discussions. Please sign the attendance sheet when you come to the class. Any false signatures will result in zero participation grades for all parties involved and is an academic integrity violation. Three unexcused absences will cause a 5% reduction in the participation grade. Five unexcused absences will result in a 0% for the participation grade.

Grading
Contributions to the grade are:
- Assignments = 70%
- Quiz = 20%
- Participation Grade = 10%

Expectations
The following guidelines will create a comfortable and productive learning environment throughout the course:

You can expect me:
- To start and end class on time.
- To reply to e-mails within 24 hours on weekdays and 48 hours on weekends.
- To assign homework that adequately covers the material and meets the learning objectives of the course while adhering to the time expectations for a 3 units course

I expect you:
- To come to class on time.
- To be attentive and engaged in class.
- To refrain from using laptops, cell phones and other electronic devices during class.
• To spend an adequate amount of time on the homework each week, making an effort to solve and understand each problem.
• To seek help when appropriate.

Cheating, Plagiarism, Computer Use
Everyone is required to do individual work on individual assignments. Discussions with other students about concepts and overall approaches to solving individual assignments are permitted. Please read these sentences very carefully: You all can help each other learn the material better if you are permitted to ask each other clarifying questions and discuss concepts. However, copying another student’s spreadsheet or directly copying another student’s answers is clearly plagiarism. When your “discussion” is unidirectional, you are on shaky ground. Each student must submit their own work and understand what they did on that assignment.

Any occurrence of inappropriate collaboration, cheating or plagiarism will be dealt with in accordance with University policy.

Statement of 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/.

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/.

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 as early in the semester as possible.

DSP Contact Information
Office location: STU 301
Hours open: 8:30 a.m. until 5:00 p.m., Monday through Friday.
Phone number: (213) 740-0776

Recommended Textbook:
• ASCE Civil Engineering Magazines, Engineering New Record

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<th>Topics Covered</th>
<th>Learning Outcomes</th>
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### An overview of civil engineering disciplines

Students will be able to understand the following topics:
1. Overview of Engineering
2. Historical Perspective
3. Construction Engineering
4. Design of Structures and its Components
5. Water Resources
6. Transportation Systems
7. Environmental Engineering | Civil Engineering and Society

### An introduction to technical report writing

8. The basic skills to prepare a technical report

### The role of civil engineers in society and of professional ethics

9. The societal and ethical responsibilities of a civil engineer

### Lecture and Lab Schedule

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<tr>
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<th>Lecture</th>
<th>Lab</th>
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<tr>
<td>Sessions per Week</td>
<td>Duration per Session</td>
<td>Sessions per Week</td>
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<td>2</td>
<td>50 minutes</td>
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Contribution of Course to Meeting the Professional Component (Criterion 4)

**Engineering Topics**
This course gives students an overview of civil engineering disciplines, technical report writing and presentation, the role of civil engineers in society, and professional ethics.

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<th>Course Contribution to Program Outcomes (a-k)</th>
<th>Key</th>
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<td>f. An understanding of professional and ethical responsibility.</td>
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<td>g. An ability to communicate effectively.</td>
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<td>h. The broad education necessary to understand the impact of engineering solutions in a global economic and environmental and societal context.</td>
<td>✓</td>
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<tr>
<td>i. Recognition of the need for, and an ability to engage in life-long learning.</td>
<td>✓</td>
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<td>j. Knowledge of contemporary issues.</td>
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Relation of Course Objectives to Program Outcomes
The Civil Engineering program is designed to teach beyond the technical content of the curriculum and prepare the students to utilize what they learn in a professional setting.

This course contributes to the program outcomes as outlined in the adjacent table.

Prepared by: Dr. Lucio Soibelman
Professor and Chair of the Astani Civil and Environmental Engineering Department.

Date: Fall, 2012