COURSE SYLLABUS

CIVE 100
Introduction to Civil Engineering
Fall 2013 – 12:00pm W
AH-2108
Instructor: John Prince, P.E.

Office Hours: By appointment (call or email)
Email: jprince@rfb.com or jprince@mail.sdsu.edu
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COURSE DESIGNATION
Required for CivE majors

COURSE DESCRIPTION
Introduction to diverse fields and tracks of the Civil Engineering profession. Understanding of fundamental interactions between Civil Engineering and society. Introduction to the ethical, technological, business, licensure, legal, and economic aspects of modern civil engineering.

PRE-REQUISITE
None

REQUIRED MATERIALS
- iClicker – is a response system that allows you to answer questions the instructor poses during class. You will be graded on your in-class participation. In order to receive this credit, you will need to register your iclicker remote to the class by using the link on our Blackboard course menu. You are responsible for bringing your remote to every class. (instructions for registering: http://clicker.sdsu.edu/)
- No textbook required

GRADING (approximate, subject to change at any time)

<table>
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<tr>
<th>Class Attendance (via iclicker):</th>
<th>Weighting</th>
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<tr>
<td>In-Class Quiz Questions (iclicker):</td>
<td>50%*</td>
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| Assignments | 25%
| Total: | 100%

* Week 1 thru 3 attendance and questions will not be counted
** Standard grading: 100-90%=A, 89-80%=B, 79-70%=C, etc.

There is no Final Exam for this class
TENTATIVE CLASS SCHEDULE/TOPICS

1) 8/28 - INTRODUCTION / OVERVIEW
2) 9/4 – INTEREST SHARING / PROFESSIONAL ORGS INRTO
3) 9/11 – STUDY ABROAD / PROFESSIONAL ORGS
4) 9/18 – LEARNING AND PROBLEM SOLVING
5) 9/25 – DISCIPLINE FOCUS – Transportation Engineering
6) 10/2 - DISCIPLINE FOCUS – Transportation Planning
7) 10/9 – DISCIPLINE FOCUS – Structural
8) 10/16 – INTERNSHIPS / LICENSURE /
9) 10/23 – “WHAT THEY DIDN’T TELL YOU IN SCHOOL” / CAREER PATHS
10) 10/30 – DISCIPLINE FOCUS – Construction (and Masterplans)
11) 11/6 – DISCIPLINE FOCUS – Water/Environmental
12) 11/13 – DISCIPLINE FOCUS – Water Resources/Public
13) 11/20 - DISCIPLINE FOCUS – Geotechnical
14) 11/27 - NO CLASS – Thanksgiving Week
15) 12/4 - SUMMARY AND FINAL THOUGHTS

ASSIGNMENTS
Various assignments may be required throughout the semester. Assignments shall be completed outside of class time and posted to Blackboard by the required date.

LECTURES/LABORATORY SCHEDULE
Lecture: one session per week; 50 minutes per session

COURSE LEARNING OUTCOMES
1. Develop an introductory understanding of the Civil Engineering profession and its various sub-fields
2. Develop a basic understanding of Civil Engineering as a “people-serving profession”
3. Develop an introductory understanding of various factors affecting – and being affected by – Civil Engineering profession
4. Develop a basic understanding of such concepts as leadership, teamwork, effective communication, economics, ethics, and life-long learning
RELATIONSHIP OF COURSE OUTCOMES TO PROGRAM OUTCOMES

OUTCOME 8:  Organize and deliver effective verbal, written and graphical communication
   A. Explain concepts presented in class by clearly and concisely answering in-class quiz questions
   B. Research and Prepare a short written essay on a Professional Organization of personal professional interest
      Assessed by: Quizzes, Essay

OUTCOME 10:  Analyze a complex situation involving multiple conflicting professional, ethical interests to determine an appropriate course of action
   A. Demonstrate fundamental understanding of the Engineering Cannons of Ethics
      Assessed by: Quizzes, Final exam

OUTCOME 11:  Demonstrate the ability to learn on their own without the aid of formal instruction
   A. Use Internet and local newspapers to individually explore and understand a specific important civil/environmental problem facing San Diego area
   B. Explain value of CE professional registration and need for life-long learning
   C. Explain your plans for selection of CE specialty and reasons for your preference
      Assessed by: essay, homework, final exam

OUTCOME 12:  Explain key concepts and problem solving processes used in management
   A. Demonstrate fundamental understanding of differences between the private and public sectors of Civil Engineering
      Assessed by: Quizzes

OUTCOME 14:  Explain the role of the leader, leadership principle and attitudes conductive to the effective practice of civil construction or environmental engineering
   A. Explain differences between various managerial styles
   B. Explain 5-6 differences between a leader and a manager
      Assessed by: homework, final exam