CE 104 Civil Engineering Projects
Spring 2008

Course information

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Goals: To acquaint students with various careers in civil engineering; to enhance the professional practices of communication, teamwork, leadership, and ethics

Tentative topics:

1. Civil engineering curriculum
   a. Rationale behind the CCEE curriculum
   b. Educational objectives and program of study
   c. Undergraduate research and international study
   d. Pathway to senior design
2. Careers in civil engineering
   a. Overview of careers
   b. Examples
      i. Engineer in private practice: Chris Milner, Kimley-Horn & Assoc., Inc.
      ii. Engineer in a city department
      iii. County engineer: Dan Waid, Hamilton County Engineer
      iv. Engineer in a state department
3. Professional practices
   a. Teamwork and leadership
   b. Technical communication
   c. Ethics

Requirements and policies:

The grade will be based on homework (65%) and a final exam (35%). The homework will be done in teams of three or four students that the instructor will assign. Your team will have the following responsibilities in completing homeworks:

1. Designate a coordinator, recorder, and one or two checkers for each assignment. Rotate these roles for every assignment.
2. Agree on meeting times and the individual work to be done before the meetings.
3. Do the required individual preparation.
4. Meet and work. The **coordinator** keeps everyone on task and makes sure everyone is involved. The **recorder** prepares the final solution, and the **checkers** check the solution and ensure that everyone understands the solution and strategy.

5. Submit the assignment and review the returned homework.

Late homework without a valid excuse given in advance of the deadline will be penalized 40%. Homworks that fail to rotate the recorder will be penalized 25%. To facilitate group work and promote individual accountability, students will periodically rate everyone’s effort (not academic ability), and the ratings will be factored into the individual grades. Students will also be asked to comment on group functioning throughout the term. The groups will be reshuffled if a majority of students would like to.

**Extra Credit**

You can earn extra credit by writing a summary (no more than one page) of any of the following:

1. A speaker’s presentation at a meeting of the [American Society of Civil Engineers](https://www.asce.org), [Transportation Student Association](https://www.tra.org), [Geo-Engineering Society](https://www.geoengineering.org), [Society of Women Engineers](https://www.swe.org), [Women in Science and Engineering](https://www.wise-society.org), and the [ISU Water Quality Club](https://www.isuwaterquality.com).

2. Your experiences at the [Engineering Career Fair](https://www.isu.edu/engineering-career-fair) talking to representatives of a company that hires civil engineers.

Reports from speaker meetings must be submitted **within one week after the meeting**, and a report from the Engineering Career Fair must be submitted by **February 27**. Late reports will not be accepted. These reports may be done individually.

**Disabilities**

If you have a documented disability and anticipate needing accommodations in this course, please make arrangements to meet with me soon. Please request that a Disability Resources staff send a SAAR form verifying your disability and specifying the accommodation you will need.