CE 104 Civil Engineering Projects  
Spring 2008

Assignment 2  
Due Wednesday February 6

Instructions: Follow the general instructions for Assignment 1. Please submit the assignment to rehmann@iastate.edu by 11:00 pm on Feb. 6.

4. One of the roles of civil engineers is to handle the nation’s infrastructure. Find the 2005 infrastructure report card of the American Society of Civil Engineers on the Web and answer the following questions.
   a. What is the overall grade for infrastructure in the U.S.?
   b. What were the four criteria used to evaluate infrastructure in each category?
   c. How much money does ASCE estimate is needed to be invested in infrastructure over a five-year period?
   d. Is the amount in part c large? Compare it to the U.S. federal budget for five years. List the source of information on the budget and any assumptions in your calculations.
   e. Only one of the 11 legislative actions on infrastructure that ASCE recommended to the 110th Congress has been enacted. How did Iowa’s senators vote on that bill?
   f. How much solid waste does the average Iowan generate in a day?

5. For each member of your homework group, list the technical area of most interest (e.g., construction, environmental, geotechnical, etc.) and the type of employer of most interest (e.g., consultant, government, academia, etc.).

6. The Engineering Career Services (ECS) office at ISU provides placement and other assistance to engineering students and alumni. In this problem, you will explore this information to help you prepare for upcoming career fairs and seek internships and cooperative opportunities. Answer the following:
   a. What is the ISU CMS?
   b. When is the next Engineering Career Fair?
   c. Many companies attending the next Career Fair will hire CEs. Which companies’ names start with ‘O’?
   d. What are five actions for preparing for the Career Fair?
   e. What was the average monthly salary for co-op civil engineers reported during the fall of 2006 and summer of 2007?
   f. In how many different states did civil engineering students accept full time job offers during the fall of 2006 and summer of 2007?
7. List one guideline for making a coop/intern/summer experience more meaningful.
8. List one effective technique for formatting a résumé.
9. Briefly list three tips for improving your résumé.