Learning objectives

While the goals listed in the handout with course information are quite general, the learning objectives specify what you will be able to do. They are constructed on six levels: (1) listing and defining, (2) explaining, (3) applying, (4) analyzing, (5) designing and formulating, and (6) evaluating and choosing. Use these objectives to focus your study.

1. List and explain two main roles of civil engineers. Describe the state of infrastructure in the U.S.

2. List ways to obtain help at ISU for an engineering career. Explain actions that students can take to improve their career opportunities.

3. List and explain the roles of members of a homework team. Explain the importance of teamwork in a civil engineering career. Formulate expectations for effective team functioning. Evaluate the functioning of a team and suggest ways to improve the teamwork.

4. List and explain properties of an effective leader. Explain the importance of leadership in a civil engineering career. Evaluate a person’s leadership abilities.

5. List and explain the fundamental canons from the ASCE Code of Ethics. Determine whether an action or behavior is ethical according to the ASCE Code.

6. Write and revise reports. List and explain the four rhetorical factors in technical communication. Design a document with effective structure; write effective and clear introductory sentences. Identify and revise errors in mechanics: grammar, spelling, capitalization, diction, wordiness, etc.

7. List and explain the content required for a speaker report in CE 104. Analyze a presentation and identify and discuss a speaker’s career path and projects. Discuss the role of professional practices (e.g., communication, teamwork, leadership, ethics) in a speaker’s career. Formulate lessons drawn from a speaker’s presentation.

8. Write an educational objective and devise a four-year Program of Study.