Student Learning Outcomes

College: Engineering
Department: Civil and Environmental Engineering
Degree Program: Bachelor of Science in Civil Engineering

1) Students will develop an ability to apply knowledge of mathematics, science, and engineering.

2) Students will develop an ability to design and conduct experiments, as well as to analyze & interpret data.

3) Students will develop an ability to design a system, component, or process to meet desired needs.

4) Students will develop an ability to function on multi-disciplinary teams.

5) Students will develop an ability to identify, formulate, and solve engineering problems.

6) Students will develop an understanding of professional and ethical responsibility.

7) Students will develop an ability to communicate effectively, both orally and in writing.

8) Students will receive the broad education necessary to understand the impact of engineering solutions in a global and societal context.

9) Students will develop a recognition of the need for, and an ability to engage in, life-long learning.

10) Students will develop a knowledge of contemporary issues.

11) Students will develop an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice.

12) Students will develop an ability to explain key concepts and problem-solving concepts used in management.
13) Students will develop an ability to explain key concepts and problem-solving processes used in business, public policy, and public administration.

14) Students will develop an ability to explain the role of leaders and leadership principles.