



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.