

# Bachelor of Science in Civil Engineering

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## Program Student Learning Outcomes

Students graduating with a Bachelor of Science in Civil Engineering will be able to:

- Identify, formulate, and solve complex civil engineering problems by applying principles of engineering, science, and mathematics;
- Apply civil engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as local, global, cultural, social, environmental, and economic factors;
- Communicate effectively with a range of audiences;
- Recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts;
- Function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives;
- Develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions; and
- Acquire and apply new knowledge as needed, using appropriate learning strategies.