

CIVIL ENGINEERING, MINOR

Specific Admission Requirements

Student must be a current engineering (mechatronics and industrial) undergraduate student.

Student Learning Outcomes

1. an ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. an ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. an ability to communicate effectively with a range of audiences
4. an ability to 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
5. an ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. an ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. an ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

Specific Program Requirements

Course	Title	Credits
CET 208	Concrete and Asphalt Materials	3
CE 321	Geotechnical Engineering I	3
CE 341	Introduction to Transportation Engineering	3
CE 351	Hydraulics with Lab	3
Technical Electives	Select any 9 hours from CE 331, CE 404, CE 405, CE 412, CE 415, CE 421, CE 473, and similar CE courses with program advisor approval	9
Total Credits		21

Specific Graduation Requirements

A requirement of 21 credit hours of advisor approved CE or CET courses with the minimum GPA of 2.0.