Curriculum

Major

- 1. Total Credits: 69 or more
- 2. Required Courses for major: 27 credits
- 3. Elective Courses for Major: 42 credits or more

Double Major

- 1. Total Credits: 39 or more
- 2. Required Courses for major: 15 credits
- 3. Elective Courses for Major: 24 credits or more

Minor

1. Total Credits: 21 or more from Civil and Environmental Engineering.

2. Recommended Courses: Fluid Mechanics And Practice, Applied Mechanics and Lab 2, Environmental Engineering and Lab, Soil Mechanics, Structural Mechanics

1-1 Spring Semester

Required

- -Freshmen Seminar A
- -Writing and Presentation for Problem-solving
- -The Universe, Nature and Mankind
- -Basics of Software and Coding
- -Calculus 1
- -Physics 1
- -Chemistry 1

1-2 Fall Semester

Required

- -Freshmen Seminar B
- -Western Philosophy: Issue and Discussion
- -College English
- -Application of Advanced Programming Language
- -Calculus 2
- -Introduction to Creative Design

2-1 Spring Semester

Required

- -Artificial Intelligence and Big Date
- -Mathematics for Engineers 1
- -Environmental Engineering and Lab
- -Fluid mechanics and Practice
- -Applied Mechanics and Lab 1

2-2 Fall Semester

- Required
- -Advanced Artificial Intelligence
- -Mathematics for Engineers 2
- -Applied Mechanics and Lab 2
- -Soil Mechanics

Elective

- -Numerical Analysis in Civil and Environmental Engineering
- -Hydraulics

3-1 Spring Semester

Required -Concrete Engineering -Structural Engineering Elective

-Disaster Mitigation Engineering

-Steel structural engineering

-Water treatment engineering

-Surveying

3-2 Fall Semester

Elective

-Constructing Management

-Hydrology

-Concrete Structures Design

-Water Reclamation and Waste Recycle

-Foundation Engineering

-Composite Structure Design

4-1 Spring Semester

Elective

-Independent Study and Career Skills 1

-Highway Engineering

-Water Resource Engineering

-Autocad

-Earthquake Engineering

-Coastal and Harbor Engineering

4-2 Fall Semester

Required -Capstone Design Elective -Independent Study and Career Skills 2 -Bridge Design

-Measurement & Testing

-Laboratory Testing of Construction Material

-Renewable Energy