Civil Engineering MAJOR MAP

B.S.C.E.

Curriculum Guide

1ST YEAR

Courses: Math, Chemistry, English, Engineering Mechanics, Skills for Success, Intro to Civil Engineering, Communication, and Humanities/Fine Art Elective. Understand the CEE curriculum and develop a long term plan.

Visit the Career Center to learn about careers and write a resume, cover letters, and thank you notes.

Attend the Career Fair and learn about what employers seek in students. Make friends with peers and develop study groups.

Explore and participate in social and community activities, and non-academic activities such as athletic and music programs. Visit professors during office hours, and ask about their research. Learn about the Grand Challenge Scholars Program.

NAVIGATE COURSEWORK

2ND YEAR


Gain field experience through summer internship at agencies or companies.

Participate in the student chapter of a professional association and regularly participate (consider AISES, ASCE, AWWA/WEF, EW, ITE, MRS, and SWE). Developing networks and networking skills.

DEVELOP SKILLS THROUGH EXPERIENCE

3RD YEAR


Seek part time civil engineering jobs on- and off-campus during academic year, and continue summer intern.

Consider an on- or off-campus job to expand experience.

Consider a leadership position in a professional association/club/organization (e.g., concrete canoe, EWB, steel bridge, WEF). Participate in company and site visits organized by the department and the college.

SEEK OUT CONNECTIONS

4TH OR FINAL YEAR

Complete engineering design courses (required and technical electives), Contracts, Specifications, Engineering Economy, and Senior Design. Pass the FE exam.

Participate in regional and national student design competitions.

Participate in the student research opportunities.

Volunteer to work on K-12 student research opportunities.

Pursue career opportunities that fulfill your professional and personal goals.

Where could I go after graduation?

Our graduates design solutions for civil infrastructure.

Engineering areas and typical applications include:

- Environmental (treating and managing water, solid waste, industrial & hazardous waste)
- Geotechnical (foundations, earthen and gravity dams)
- Structural (buildings, bridges and other structures)
- Transportation (highways, roads and railways, airports, pipelines)
- Water Resources (water management and planning, municipal water supply)

Traditional career paths involve:

- Planning, design, operations, project management and construction.
- Sales, research, teaching, architecture and law.

Most graduates work in consulting and government agencies, industry and military. Many pursue advanced degrees.

Other careers include:

Apply for jobs, graduate school, or additional training. Get help from the Career Center with job searching, resumes, letters, interviews, grad school apps, etc.

Graduates become prepared for professional licensure after achieving required work experiences and passing licensing/boards.

Some careers may require additional training.

Go! Build Your Future

Struggling with career or program decisions? Go to orientation sessions, visit with Academic Advising, visit with the Career Center, and attend Career Fairs during the year.

Create a LinkedIn profile, build out LinkedIn connections, develop 10-15 second elevator pitch on who you are, conduct internship/job search, develop a list of references.

Begin to streamline your career focus area. Research education and experience requirements for careers of interest. If needed, prepare to take a graduate school entrance examination.

Pursue career opportunities that fulfill your professional and personal goals. If interested, apply to graduate schools for advanced degrees.

LISCENSING/BOARDS.

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