Civil Engineering B.S.C.E.

Major
Bachelor of Science
Civil Engineering
Swenson College of Science and Engineering

The B.S.C.E. program in civil engineering integrates topics from chemistry, physics, advanced mathematics, statistics, geology, and core engineering science to prepare graduates to work professionally in public and private organizations that design, develop, and construct structures; design, build, and maintain transportation systems and infrastructure; and design, operate, and control water resource systems. Graduates are rooted in safe and efficient design skills and show respect for and strive to improve the environment wherever they work.

Why UMD

- Active learning environment
- Access to state-of-the-art instrumentation
- Focus on undergraduate teaching and research

Career Possibilities

Civil engineering graduates are qualified for employment in a wide variety of organizations, both public and private, including design, material testing and manufacture, construction, transportation, natural resources development, and energy. Graduates are prepared to begin their first step toward professional registration by taking the FE exam before completing their collegiate degree. They are also well qualified to continue with graduate education in civil engineering or engineering management.

Scholarships

In addition to the SCSE scholarships offered, our department also has several including the UMD Jill and Terry Swor Scholarship, the TGF scholarship, and the UMD Civil Engineering Scholarship.

Student Clubs

We have 2 civil engineering clubs. The American Society of Civil Engineers, the oldest engineering society in the united states, serves students by increasing participation in engineering through involvement with practicing engineers, encouragement of participation in community service, and the growth of professional relationships.

The American Concrete Institute focuses on increasing the knowledge of concrete design, construction, and materials. This is done through participation in student competitions, social events and service projects, and by hosting educational seminars.

Many of our students also participate in the Society of Women Engineers (SWE). Open to both and women, SWE encourages students to expand the image of the engineering professional and assist in the encouragement of female peers to take on engineering professions. The UMD SWE chapter attends regional conferences, host speakers from engineering companies, organizes outreach events with the duluth of community, and has several social gathering throughout the year.
Here’s a sampling of positions Civil Engineering grads have attained six months to one year after graduation.

- Project Engineer 1 Engineer-in-Training - Alliant Engineering, Minneapolis, MN
- Structural Engineer-in-Training - BKBM Engineers, Brooklyn Park, MN
- Transportation Design Engineer - Bolton & Menk, Ramsey, MN
- Structural Engineer-InTraining, Krech Ojard & Associates, Duluth, MN
- Graduate Engineer - State of Minnesota, Department of Transportation, Bemidji, MN
- Graduate Engineer - WSB & Associates, Burnsville, MN
- Civil Engineering, Graduate School, University of Minnesota Duluth
- Geotechnical Engineering, Graduate School, University of Texas at Austin

For more data see the Civil Engineering Graduate Follow-Up Report [5].

For ideas about Civil Engineering and other majors visit Career & Internship Services [6].

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**Links**