

Appendix: Proposed Catalogue Changes

2018-2019 Undergraduate/Graduate Catalog

Civil Engineering, B.S. A minor is not required with this major.

Civil Engineering Program Educational Objectives

Guided by the Mission of the University, the Civil Engineering program is committed to preparing students who will be thoughtful, responsible, and successful citizens. Within three to five years of graduation, the program expects that Civil Engineering graduates will have:

1. Become competent and engaged engineering professionals, applying their technical and managerial skills in the planning, design, construction, operation or maintenance of the build environment and global infrastructure, and utilizing their skills to analyze and design systems, specify project methods and materials, perform cost estimates and analyses, and manage technical activities in support of civil engineering projects.
2. Initiated an active program of life-long learning, including studies leading to professional licensure or an advanced degree in engineering, that provides for continued development of their technical abilities and management skills, and attainment of professional expertise.
3. Developed their communication skills in oral, written, visual and graphic modes when working as team members or leaders, so they can actively participate in their communities and their profession.
4. Established an understanding of professionalism, ethics, quality performance, public policy, safety, and sustainability that allows them to be professional leaders and contributors to society when solving engineering problems and producing civil engineering solutions.

In addition to CCSU admissions standards, admission to the undergraduate Civil Engineering (CE) and Mechanical Engineering (ME) programs requires **completion of, or eligibility to enroll in, MATH 152 (Calculus I).**

~~Completion of, or eligibility to enroll in, WRT 105 (Enhanced Introduction to College Writing) or WRT 110 (Introduction to College Writing).~~

The Bachelor of Science in Civil Engineering is a program of study requiring 127-136 credits of undergraduate work, including a two-term senior project capstone requirement completed with oral and written reports. Registration to take the NCEES FE exam is required for completion of the senior project capstone course.

2018-2019 Undergraduate/Graduate Catalog

Mechanical Engineering, B.S.

Mechanical Engineering Program Educational Objectives

The Mechanical Engineering program seeks to prepare graduates who, after the first few years of their career, have:

1. Established themselves as valued practicing mechanical engineers working primarily in the region.
2. Become supportive members of the community and active professionally, seeking continuous improvement of skills and professional growth.

In addition to CCSU admissions standards, admission to the undergraduate Civil Engineering (CE) and Mechanical Engineering (ME) programs requires **completion of, or eligibility to enroll in, MATH 152 (Calculus I).**

~~and Completion of, or eligibility to enroll in, ENG 105 or ENG 110 (Freshman Composition).~~

The Bachelor of Science in Mechanical Engineering is a program of study requiring 127-135 credits of undergraduate work, including a two-term senior project capstone requirement completed through oral and written reports. If desired, the candidate may also choose an appropriate sequence of elective courses for concentration in Manufacturing, or Aerospace.

Required coursework can be grouped in four categories: General Education, Major Requirements, Electives or Concentration Requirements, and Additional Requirements.