Civil Engineering, B.S.

Civil and Environmental Engineering Chair: Dr. Eric Musselman
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Telephone: 610-519-4960
Email: eric.musselman@villanova.edu

About

- Bachelor of Science in Civil Engineering
- Bachelor of Science in Civil Engineering, Honors

Civil engineers are involved in the planning, design, construction, and operation of facilities essential to modern life such as dams, bridges, highways, buildings, airports, harbors, river and shore protection, drinking water supplies, wastewater treatment, solid and hazardous waste management and disposal, offshore structures, and space platforms. Because these projects are often of a magnitude that affects large segments of the population, the responsibility of the civil engineer extends beyond mere physical facilities into the social, political, and economic welfare of those they serve.

Mission Statement

Villanova University’s Department of Civil and Environmental Engineering provides our students with a high quality, contemporary, broad-based, personalized civil engineering education within the Augustinian, humanistic context. We prepare our students for professional practice, graduate study, and life-long learning.

Program Educational Objectives

Three to five years after graduation, we expect our graduates to be able to:

- Use their broad-based civil engineering backgrounds to perform as engineers in construction, environmental, geotechnical, structural, transportation, water resources, or general civil engineering.
- Succeed in graduate school in the disciplines listed above or closely related disciplines, as well as other areas such as business and law.
- Continue the process of life-long learning as required for long-term personal and professional growth.
- Serve society by being ethical members of their professional community.
- Use technical and interpersonal skills to help themselves and their employers succeed.
- Relate their personal and professional lives to the Augustinian, humanistic tradition.
- The broad-based curriculum provides flexibility and meets student needs through a selection of electives.

Program: Engineering
Type: Bachelor of Science
### Freshman Year

#### First Semester

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Junior Year

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Category Descriptions

Elective

Credits: 3

Electives for CE Majors