



4+1 BACHELOR'S/MASTER'S DEGREE PROGRAMS

The Bachelor's degree in Civil or Environmental Engineering is the minimum requirement for practicing in these professions today.

It is also one of the key requirements for becoming a licensed professional engineer. More than ever before, the industry is demanding graduates to seek advanced training and education in order to handle the complex problems we currently face with our deteriorating infrastructure and ever changing environment. Through this program, qualified UD undergraduate students pursuing the Bachelor of Civil Engineering (BCE) degree or the Bachelor of Environmental Engineering (BENV) degree may begin work toward their Master's degree in Civil Engineering as a senior, and complete the Master's degree in as little as one year.

ELIGIBILITY

The program is limited to UD undergraduates pursuing the BCE or BENV degree, with a minimum cumulative grade point average of 3.25 at the time of application. Students must have completed at least 90 credits toward the undergraduate degree before they can be enrolled in the program. Only full-time students at the time of application are eligible.

ADMISSION REQUIREMENTS

Students apply to the program in the spring semester of their junior year, or when they have completed 75 credits toward the undergraduate degree. Students must meet all of the requirements for admission to the regular graduate program; however, students are not required to take the GRE to gain admission to this program.

Please visit grad.udel.edu/apply/ to access the graduate application.

PROGRAM REQUIREMENTS

- Students must fulfill all of the requirements for the Master of Civil Engineering degree.
- Students may choose the non-thesis or the thesis option. The thesis option may require more time.
- Up to 6 credits of graduate course work (600 level and above) taken while an undergraduate, may be "dual-counted" toward the Bachelor's and the Master's degrees. The dual-counted courses must be established classes in civil or environmental engineering. Independent study or research cannot be dual-counted. The dual-counted courses must be taken as technical electives for the undergraduate degree. Grade requirements for the master's degree do apply.
- Additional graduate-level courses taken while an undergraduate, beyond the two dual-counted courses, may be transferred toward the master's degree. Before enrolling in any graduate-level courses, students must meet with their academic advisor for course approval and to complete the Graduate Course Approval Form.

Learn more

Civil & Environmental Engineering 4+1
Bachelor's/Master's Degree Program

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College of Engineering
DEPARTMENT OF CIVIL &
ENVIRONMENTAL ENGINEERING

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PROGRAM REQUIREMENTS CONTINUED

- Application due no later than July 1 after junior year, preferably earlier.
- Unofficial UD transcripts are accepted.
- Students admitted to the 4+1 program can take more than two graduate courses, if possible, toward their master's degree. It is more cost effective to take graduate courses as an undergraduate.

STUDENTS PICK THE CONCENTRATION WHEN APPLYING

- **Civil Infrastructure Systems**—asset management, natural disaster risk analysis, and infrastructure vulnerability
- **Coastal Engineering**—coastal engineering, wave mechanics, and environmental fluid mechanics
- **Environmental Engineering**—water and wastewater treatment, environmental chemistry and remediation, and solid and hazardous waste management
- **Geotechnical Engineering**—computational geomechanics, soil mechanics, foundation engineering, earth structures engineering, and ground improvement
- **Structural Engineering**—structural mechanics, analysis, and design; bridge engineering; structural dynamics; computational mechanics; and structural engineering materials
- **Transportation Engineering**—urban transportation, traffic engineering, systems engineering, logistics engineering, railroad engineering, and engineering management
- **Water Resources Engineering**—groundwater hydraulics, groundwater contamination, watershed management, hydrology, and water quality control

www.ce.udel.edu

