

# Commonwealth Graduate Engineering Program

## Graduate Education Opportunities through Distance Learning

### The Charles E. Via, Jr. Department of Civil and Environmental Engineering

The nationally recognized Charles E. Via, Jr. Department of Civil and Environmental Engineering offers two Masters of Science degrees through the Commonwealth Graduate Engineering Program (CGEP).

#### Environmental Science and Engineering

Designed for students with undergraduate or graduate degrees in physical or life sciences who wish to specialize in the environmental field. Students will be required to meet certain mathematics, statistics, and biology prerequisites. Courses are available in a variety of environmental disciplines.

#### Civil Engineering

Designed for students with undergraduate or graduate degrees in engineering. Degree may emphasize one of two option areas of civil engineering—construction engineering and management or environmental and water resources engineering.

#### Construction Engineering and Management (CEM)

CEM focuses on the lifecycle management of infrastructure projects and systems. Vertical and horizontal infrastructure are vital to our quality of life and economic productivity. Yet, infrastructure development and management are increasingly complex as both performance expectations and resource scarcity rises. Courses taken in the CEM option provide students the opportunity to examine the challenges that decision-makers and managers face during the planning, construction, operations and maintenance of infrastructure through coursework that covers topics in both project management and infrastructure management.

#### Environmental and Water Resources (EWR)

This focuses primarily on traditional components of an environmental engineering program. Students focused in this option will learn basic and applied engineering principles related to one or more of the following areas: water quality and treatment, industrial and hazardous waste management, or air pollution engineering. Courses include environmental chemistry and principles, water and wastewater treatment, water quality management, air resources engineering, solid and hazardous waste management, and public health engineering.

#### Certificate Programs

For more information about formal graduate certificates offered to M.S. students, go to [www.cee.vt.edu/cee-certificates](http://www.cee.vt.edu/cee-certificates).

#### Student Population

Most students in CGEP enroll part-time in the program while working as full-time professionals, completing 1-2 courses each academic term. Classes are often scheduled in the late afternoon and evening to accommodate student's workday schedules. Classes are offered via synchronous, virtual teaching platforms, such as WebEx, and do not require traveling to a classroom location.

#### Admissions Requirements

CGEP distance learning students must meet the same admission requirements as on-campus students, with some special exceptions. To be admitted, the applicant must possess an appropriate undergraduate degree with a minimum GPA of 3.0. The general GRE examination scores are also required.

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[www.cee.vt.edu](http://www.cee.vt.edu)