Student Groups

American Society of Civil Engineers
The VT chapter of ASCE is one of the largest in the nation. It is active in competitions and hands-on projects.

Bridges to Prosperity
Student-led service organization that empowers third world communities through foot bridge construction advancing access to medical care, education, employment and markets.

Chi Epsilon
The only National Civil Engineering Honor Society to recognize outstanding achievement of individuals. Membership is a mark of excellence recognized by professionals.

Construction Management Association of America
Focused on providing students with a sense of the role and responsibilities of a construction manager.

The Sustainable Land Development Club
Students learn about designing developments in a more sustainable way. Field trips, guest speakers, service projects and social gatherings are frequent in the club.

VT Student Transportation Alliance
Promotes dissemination of knowledge and information related to transportation infrastructure and system issues and solutions.

Scholarship and Financial Aid
CEE students have an opportunity to receive a variety of scholarships throughout their degree program. The College of Engineering awards multiple scholarships. Likewise, the CEE Department awards scholarships to sophomore, junior and senior students. Application information is available during each spring semester.

Undergraduate Research
Opportunities for students to understand the nature of academic research are available. Working directly with faculty provides the chance for a hands-on, minds-on experience. Students may earn academic credit toward their degree.

Global Initiatives
Student abroad and service learning opportunities are recommended for students who wish to expand their understanding of engineering from a global perspective. The profession requires students to be prepared to meet the diverse and changing landscape of the discipline. The CEE department offers specific study abroad trips to facilitate student growth and education.

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Civil and Environmental Engineering

Civil engineers are often described as the caretakers of society’s infrastructure. They are involved in the conception, planning, design construction and operation of facilities that contribute to a high quality of life and a sustainable environment. Civil engineers are problem solvers who apply technology to create the major infrastructure components of communities, including transportation systems, structures, water supply and treatment systems, bridges and tunnels, and other public works.

Civil engineers find career opportunities throughout both private and public sectors. Virtually every major industry employs civil engineers in a variety of roles. A civil engineering education can also be an excellent preparation for advanced student in business administration, law and public policy.

The Via Department of Civil and Environmental Engineering is one of the largest accredited programs in the U.S.

Undergraduate Curriculum

The department’s accredited B.S. degree program requires 132 credit hours of approved coursework. All students complete common freshman year curriculum of the College of Engineering. Upon entering the CEE Department, students complete further training in mathematics, physics, mechanics of materials and statistics. In students’ final year, advanced coursework is taken in a breadth of the discipline areas which the students choose based on their academic interest.

Many required and elective courses involve one or more aspects of the overall design process. During senior year, students complete at least one “design project” course that integrates material toward the solution of real world civil engineering problems.

The CEE department places emphasis on the value of pre-degree professional experience in the education of our students. Students participate in formal internship programs. To facilitate such opportunities for students, the department provides two career fairs each year and maintains employment listings on its website.

Discipline Areas

Students in the CEE department will obtain broad background in many areas. Formal discipline areas covered in the department are:

- Construction Engineering and Management
- Environmental and Water Resources
- Geotechnical Engineering
- Land Development and Design
- Structural Engineering and Materials
- Transportation & Infrastructure Engineering