CIVIL ENGINEERING

School of Civil and Environmental Engineering

UNDERGRADUATE DEGREE PROGRAM

Civil engineers are innovators, creators, and entrepreneurs. They design and build buildings, bridges, dams, roller coasters, and even sound stages for rock bands. They devise complex systems, such as transportation and water-supply networks, or information systems for design and management of engineering projects. They also design water treatment and wastewater treatment systems and hazardous waste remediation projects that protect the environment.

BREAK THE RULES to FIND SIMPLICITY in the COMPLEX

The School of Civil and Environmental Engineering (CEE) at Cornell is dedicated to the idea that the things we know and learn can make the world a better place. If you enjoy science and math and would like an opportunity to serve society by creating, maintaining, and upgrading the infrastructure we all rely on, this is a field you should investigate.

Civil engineers know how to evaluate risk and ensure the high reliability of their designs. Any creator of a stadium, suspension bridge, or drinking water system will tell you that failure is not an option.

As a civil engineering student at Cornell, you will work with some of the world’s top engineering faculty and fellow students. You will not only learn engineering theory and how to apply it, you will also learn to navigate the ins and outs of today’s complex business and regulatory arenas. Many CEE graduates go on to take leadership positions in established companies or start their own firms. You may also decide to continue on for an additional year to participate in Cornell’s graduate-level management program, which is taught by CEE faculty members.

Civil engineers strive for harmony and balance between the constructed human environment and the natural world. At Cornell, you’ll have the opportunity to specialize in one or more areas of the Civil Engineering field, including: environmental fluid mechanics; geotechnical engineering; hydrology; structural engineering; transportation engineering; physical, chemical, and biological water and wastewater treatment processes; and water resources. If you are most interested in Environmental Engineering, there is a degree program devoted to that specialty area (see the flier for Environmental Engineering), or you can work with an advisor to plan a more general Civil Engineering program that suits your interests.

You’ll have ample opportunities to participate in community activities by joining the award-winning chapter of the American Society of Civil Engineers (ASCE). Every year the ASCE chapter participates in national competitions to build and race a concrete canoe and to design and build a steel bridge. The group also sponsors community service projects. In addition, ASCE hosts several intramural teams, organizes social outings, and sets up study sessions for the professional-licensing exam. Students can also participate in the multi-disciplinary program, AguaClara, which involves students in the design of sustainable water treatment systems.

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Some areas of faculty research

- civil engineering materials
- contaminant transport, behavior and treatment
- engineering management
- geotechnical engineering
- remote sensing
- structural engineering
- structural mechanics
- transportation engineering and planning
- transportation systems

for underdeveloped countries. Systems designed by Cornell students currently provide safe drinking water to more than 30,000 people in Honduras.

CEE By the Numbers

Starting salaries of B.S. Civil Engineering graduates (for 2015)

Low $50,000
Median $62,000
High $78,000

Civil Engineering undergraduate students 107
Civil Engineering graduate students 100

MASTER OF ENGINEERING DEGREE PROGRAM

The School of Civil and Environmental Engineering offers an M. Eng. degree in Civil and Environmental Engineering and in Engineering Management. The M. Eng. in Civil and Environmental Engineering allows students to deepen their understanding of one of the field’s specialty areas and is excellent preparation for a career with an engineering firm.

Engineering Management is for students who seek leadership positions in management of projects, people, and organizations. It combines engineering competency with managerial skills to bring about the efficient development of technology. Engineering managers play a key role in advancing technology through strategic and operational decision-making. They guide the development of technology with high-level expertise and a broad perspective on how technology impacts economies, enhances social structures, and affects the larger global environment.

Students may also pursue Master of Science (M.S.) and Ph.D. degrees. The M.S. and Ph.D. degrees involve students in research that leads to the discovery of new knowledge. Cornell’s Civil and Environmental Engineering faculty members carry out highly regarded research in each of the field’s specialty areas.

Please visit the following website for more details: www.engineering.cornell.edu/meng

www.cee.cornell.edu