Civil and Environmental Engineering

**WHY CIVIL AND ENVIRONMENTAL ENGINEERING?**
Civil and environmental engineering are among the most diverse disciplines. There’s truly something for everyone — whether you’re interested in working in management or in the field, in a government agency or private industry, in a large company or your own one-person consulting firm. Civil engineering is considered the oldest of the engineering professions, and today both civil and environmental engineers solve some of the most pressing problems of our time.

**WHY STUDY CIVIL AND ENVIRONMENTAL ENGINEERING AT UMAINE?**
At UMaine, engineering classes are small. UMaine’s College of Engineering offers a five-year B.S.–M.B.A. degree with the Maine Business School, as well as a minor in engineering leadership and management. We offer state-of-the-art teaching and research facilities. Undergraduates have the opportunity to do meaningful research alongside faculty. Professors, not graduate students, teach classes. We have a high placement rate in top graduate programs. UMaine’s Foster Center for Student Innovation offers courses in innovation engineering. UMaine also is home to one of the country’s oldest honors programs.

Civil and environmental engineering faculty and students at UMaine have received numerous university and national awards for teaching, research and community service, including three Carnegie Foundation Maine State Professors of the Year.

**ABOUT THE PROGRAM**
UMaine’s civil and environmental engineering curriculum requires proficiency in five areas: environmental, transportation, structures, water resources and geotechnical engineering. Students follow a rigorous program in mathematics, physics, general chemistry and engineering sciences, such as statics, strength of materials and fluid mechanics. Because civil and environmental engineering is a social profession, our graduates may also be faced with economic, ethical, political, social and legal issues. Human values and social context courses are a required part of the curriculum.

**WHAT CAN I DO WITH A DEGREE IN CIVIL AND ENVIRONMENTAL ENGINEERING?**
Our program trains students for success in a professional setting, and many graduates work in the public and private sector or as consultants in the field. Civil and environmental engineers design facilities, develop plans and specifications, manage and inspect construction projects and coordinate the work of other professionals. We address issues with transportation, water resources and structural integrity.

Because the subject matter is diverse, students can do anything with a foundation in civil engineering. Lawrence Bender, the Academy Award-winning producer of “An Inconvenient Truth” and many of Quentin Tarantino’s films, is a civil engineering alumnus.

**INTERNSHIPS AND CO-OPS**
In recent years, students have participated in internships and co-ops for course credit.

**RESEARCH OPPORTUNITIES**
As undergraduates, our students have the opportunity to work on groundbreaking research in UMaine’s renowned Advanced Structures and Composites Center. Many students also work side-by-side with faculty members on geotechnical engineering and environmental and structural research.
Students gain hands-on experience in UMaine’s award-winning concrete canoe and steel bridge teams.

SCHOLARSHIPS
We have many departmental scholarships available to undergraduate students, ranging from $100 to $4,000. Outstanding high school seniors are eligible for one of eight PaCEsetter Scholarships funded by UMaine’s Civil Engineering Association. The program provides up to $2,000 annually for two years.

HOW DO I APPLY?
Visit go.umaine.edu for an application, as well as information about academics and life at UMaine.

For my senior capstone project, I worked with a team of UMaine students, members of the campus chapter of Engineers Without Borders and professional engineers to create a wastewater treatment system for the people of Dulce Vivir, Honduras. We’re trying to find a permanent solution that’s sustainable. The solutions we’ve created will be presented to the community and they’re going to pick one. This is something that can actually be implemented.”

— Heather Martin, Civil Engineering major