



CIVIL ENGINEERING

You loved to build things with LEGOs and Tinkertoys when you were a kid. Now, it's time to get real. Your career as a civil engineer starts here. Modern civilization rests on the backs of engineers who design and supervise the construction of bridges, roadways, dams, water treatment plants, schools, sports stadiums, skyscrapers, power plants and more. If you dream it, you can build it.

OHIO
NORTHERN
UNIVERSITY



DREAM IT. BUILD IT. MANAGE IT.

Modern civilization requires infrastructure. Civil engineers take infrastructure from dreams into reality. From clean drinking water and safe roadways, to large bridges and the power grid, civil engineers impact every aspect of society. The design of such large infrastructure, as well as the engineered management of natural resources and assessment of environmental impacts, all fall under the purview of civil engineers.

At the T.J. Smull College of Engineering, you'll gain a solid foundation in all aspects of civil engineering, including environmental systems, geotechnical design, structural analysis, transportation, and water resources. You can pursue a specific area of interest with a variety of upper-level elective courses. We've recently added an environmental engineering concentration for those who want to understand more about how to safely manage and conserve our environment.

Our academic program is rigorous. Expect to work hard and be challenged. But there's no need to stress, because we offer a supportive and collaborative environment. Your professors, fellow engineering students and ONU alumni will become your friends and family. They will help you succeed and open doors for you.

Upon graduation, you'll be ready for whatever the future holds, whether it's designing and supervising the construction of roadways for the Ohio Department of Transportation, solving water problems for a village in a developing nation, overseeing commercial projects for an engineering firm, or even starting your own company.



OPPORTUNITY ABOUNDS

CONCRETE CANOES AREN'T AN OXYMORON

The Concrete Canoe Competition is one that goes back to the early 1970s. Students build and race boats built solely out of concrete - all for engineering glory. The competition is education, endurance test and tradition all wrapped into one unforgettable experience. As a team member, you'll build on 50+ years of accumulated knowledge and compete against engineering students from top schools across the country.

BRIDGE OF STEEL

Gaining in popularity every year, Steel Bridge is an inter-collegiate competition to design, fabricate and construct a steel bridge. Civil engineering students, working within project parameters, experience and solve real-life design and construction problems. It's fun, challenging and fast-paced.



WHERE COULD YOU END UP?

- Impacting public infrastructure and policy as a government engineer
- Developing innovative design solutions for a wide variety of clients as an engineering consultant
- Transforming engineering and architectural design drawings from paper to reality in the public sector

Companies that have recently hired our civil engineering students include the Ohio Department of Transportation, Marathon Petroleum, EMH&T, Kokosing Construction, and Burgess and Niple.

OUTCOMES AND COURSES

SOLID OUTCOMES

- Our civil engineering program is accredited by the Engineering Accreditation Commission of ABET, <http://www.abet.org>.
- We also offer a concentration track focused on environmental engineering.
- We boast a 100 percent placement rate for students in co-op employment opportunities, which begin in the second semester of the junior year and continue for one year. Our students co-op at well-known companies like Marathon Petroleum and Kokosing Construction.
- Over the last five years, an average of 91 percent of our civil engineering majors found full-time engineering jobs or enrolled in graduate school within six months of graduation.

COURSES

You'll need 128 credit hours to earn your Bachelor of Science in Civil Engineering (BSCE). We encourage you to use your elective hours to pursue courses or a minor that will align with your interests and passions.

Here are some courses you'll take as a civil engineering major:

- Chemistry
- Calculus
- Physics
- Strength of Materials
- Differential Equations
- Structural Analysis
- Water Resources
- Transportation Engineering
- Environmental Engineering
- Geotechnical Principles



LEE SAUNDERS
BSCE '12 Civil Engineering

"Civil engineering is an awesome field to go into. There are so many specialties you could focus your career on, and all of them are pivotal to the function of society," he says. "ONU molded me into a versatile, problem-solving engineer, ready to take on any challenge. The curriculum is comprehensive, the professors are knowledgeable and willing to help, and the opportunities are endless. I'm extremely proud to call ONU my alma mater."

THINK SUCCESS

Lee Saunders graduated in 2012 with his Bachelor of Science in Civil Engineering. At Northern, he was active in the American Society of Civil Engineers and the Joint Engineering Council. He played Club Ultimate Frisbee and Club Soccer all four years. He also participated in the Concrete Canoe Competition, and his team made it to nationals two times. During the summers, he interned with the Ohio Department of Transportation, Brown and Caldwell, and R.E. Warner and Associates. Today, he's an engineer at Haley & Aldrich, where he works in their Energy, Industry, and Mining business unit. He's also working on getting a master's degree in renewable and clean energy.



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Office of Admissions | Ada, OH 45810 | 419-772-2260 | onu.edu

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