

Engineering
starts here!

Michigan Tech



WHY CHOOSE MICHIGAN TECH?

Hands-on from the start

Our innovative approach to engineering education actively involves students in hands-on learning opportunities, leadership, research, and entrepreneurship.

Best of both worlds

We offer the high-tech excitement of a large engineering program located on a small, friendly campus.

A year to decide

Our common First-Year Engineering Program allows you to investigate all engineering majors, without delaying graduation.

Faculty-taught first-year engineering courses

You will benefit from individual attention and guidance.

Open-door policy

Our faculty are easily accessible. We enjoy mentoring students!

Strong academic advising

Our knowledgeable advisors care and will help you toward your academic and career goals.

Learning centers abound

Get extra help for any of your first-year courses from experienced academic coaches at learning centers across campus.

World-class facilities

Each department is home to cutting-edge labs, equipment, and facilities fully utilized by undergraduates.

And much more!



BUILD YOUR FOUNDATION

As a First-Year Engineering student at Michigan Tech you will automatically become part of a learning community of about twenty students. During the fall semester you'll get to know one another, while taking the same core courses.

You will also enter into a collaborative team with two or three other students in your first-year engineering course. Your group will join forces on small assignments during class, and on large team projects outside of class, functioning much like a professional engineering team. At Michigan Tech you will experience collaborative engineering teamwork right from the start.

A sample of team projects:

- 3D solid modeling
- Autonomous robot
- Alternative power generation
- Ethics case studies
- Human-powered vehicle
- Chemical batch reactions
- Programming a physical robot
- Engineering innovations and technology
- And many others

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DISCOVER YOUR INTERESTS

Undecided about which area of engineering to pursue? No problem. During your first year at Michigan Tech you will explore engineering majors, gain fundamental skills, and make an informed decision about your chosen major.

Engineering Majors

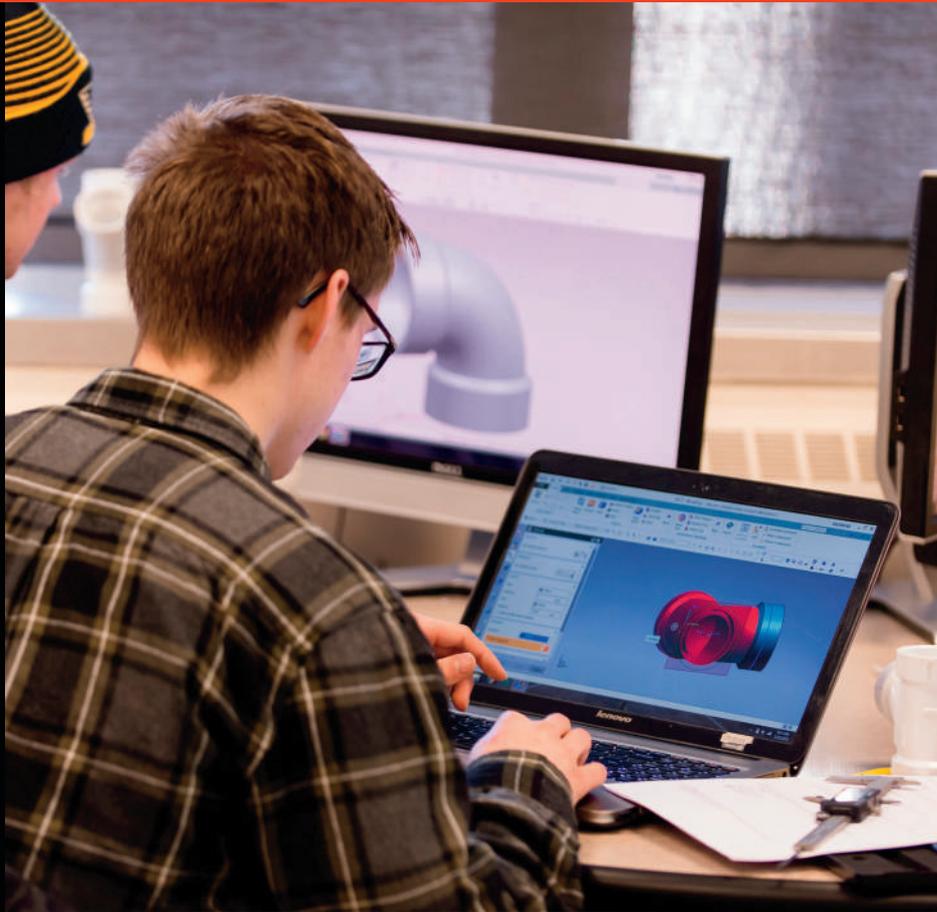
- Biomedical Engineering
- Civil Engineering
- Chemical Engineering
- Computer Engineering
- Electrical Engineering
- Engineering (BSE)
- Environmental Engineering
- Geological Engineering
- Materials Science and Engineering
- Mechanical Engineering
- Mining Engineering

Active Learning

In a lecture-based class, it can take time to get feedback from the professor. That feedback is typically based on graded homework assignments or exams. By then the class has moved on to other topics.

At Michigan Tech, first-year engineering courses are not lecture-based. Instead they are active. Your professor will invest part of class introducing a new topic, and then give you the time to work on activities with your team. As your team grapples with a problem, your professor will go from team to team providing feedback as you need it.

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Engineering Explorations

As part of your first semester engineering course you will attend several Engineering Explorations where you will be able to mingle with faculty, upper class students, and academic advisors. You will tour facilities and learn about the engineering disciplines, job placement opportunities, research, and degree requirements. These explorations allow you to confirm your choice of major or discover new degree options that may be a good fit for you.

Beyond the Classroom

At Michigan Tech, you will find many opportunities to expand your education:

- Gain professional experience with a co-op or internship
- Study or work abroad
- Develop leadership skills in Michigan Tech's Pavlis Honors College
- Make new discoveries through undergraduate research
- Work on real client projects as part of an Enterprise team
- Compete on a national level against other collegiate teams
- Join one or more of the engineering-related student organizations—over forty at last count

By taking advantage of the many exciting educational opportunities offered in the lab, in the field, and around the globe, you can begin to contribute solutions to the world's increasingly complex problems well before you graduate.



CREATE THE FUTURE

Michigan Tech

FIRST-YEAR ENGINEERING

Michigan Technological University

Department of Engineering Fundamentals

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Michigan Technological University is an Equal Opportunity Educational Institution/Equal Opportunity Employer, which includes providing equal opportunity for protected veterans and individuals with disabilities.

Michigan Tech offers more than 130 undergraduate and graduate degree programs in engineering; forest resources; computing; technology; business; economics; natural, physical and environmental sciences; arts; humanities; and social sciences.