Michigan Technological University is an equal opportunity educational institution/equal opportunity employer.

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.

BACHELOR OF SCIENCE IN ENGINEERING

Michigan Technological University
College of Engineering
Department of Engineering Fundamentals
112 Dillman Hall
1400 Townsend Drive
Houghton, MI 49931-1295
T: 906-487-3057
F: 906-487-1620
E: engadvisor@mtu.edu
bse.mtu.edu

Would you like to pursue your own unique path in engineering, or enter an emerging field? If so, consider earning a Bachelor of Science in Engineering (BSE) degree.

The BSE degree program consists of courses fundamental to all engineering disciplines and a large number of elective courses built in to provide flexibility and cater to student needs and career goals.

BSE Strengths

■ A solid, accredited* program in basic engineering principles
■ The ability to customize your engineering degree
■ Access to new and innovative coursework
■ Hands-on learning experiences
■ Co-ops and internships
■ Multidisciplinary teamwork

Create your own course of study, or choose from among several defined paths:

Industrial Engineering
As an industrial engineer, you will focus on the optimization of manufacturing processes. You will design, improve, and install production systems of people, materials, information, equipment, and energy, working in a wide variety of businesses to increase sustainability. You will reduce costs associated with new technologies and strive to make work faster, easier, and more rewarding.

Geospatial Engineering
As a geospatial engineer, you will combine the use of spatial information and analytical methods to generate accurate, reliable, and useful geographic data in order to solve complex environmental and natural resource problems. Geospatial engineers use geographic data to create 3D maps, employ Earth observation systems, laser and radar imaging sensors, and other technologies to solve problems.

Service Systems Engineering
As a service systems engineer, you will develop ways to make service sector industries function smoothly and efficiently. You will focus on how service systems work and be able to identify and predict problems. Emphasis is placed on process over product, and the human side of engineering.

*The BSE undergraduate degree program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone (410) 347-7700.

Michigan Technological University is an equal opportunity educational institution/affirmative opportunity employer.

bse.mtu.edu

CREATE THE FUTURE
The BSE undergraduate degree program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone (410) 347-7700.

Michigan Technological University is an equal opportunity educational institution/equal opportunity employer.

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.

BACHELOR OF SCIENCE IN ENGINEERING

Michigan Technological University
College of Engineering
Department of Engineering Fundamentals
112 Dillman Hall
1400 Townsend Drive
Houghton, MI 49931-1295
T: 906-487-3057
F: 906-487-1620
E: engadvisor@mtu.edu
bse.mtu.edu

Would you like to pursue your own unique path in engineering, or enter an emerging field? If so, consider earning a Bachelor of Science in Engineering (BSE) degree.

The BSE degree program consists of courses fundamental to all engineering disciplines and a large number of elective courses built in to provide flexibility. You can customize your degree to fit your career goals, or select from several defined paths.

BSE Strengths
- A solid, accredited* program in basic engineering principles
- The ability to customize your engineering degree
- Access to new and innovative coursework
- Hands-on learning experiences
- Co-ops and internships
- Multidisciplinary teamwork
- Service systems engineering
- You will develop ways to make services and service systems function smoothly and efficiently. You will figure out how customer needs are projected, prioritized, and problems arising. Emphasis is on customer satisfaction and the human side of engineering.

CREATE THE FUTURE

Would you like to pursue your own unique path in engineering, or enter an emerging field? If so, consider earning a Bachelor of Science in Engineering (BSE) degree.

The BSE degree program consists of courses fundamental to all engineering disciplines and a large number of elective courses built in to provide flexibility. You can customize your degree to fit your career goals, or select from several defined paths.

BSE Strengths
- A solid, accredited* program in basic engineering principles
- The ability to customize your engineering degree
- Access to new and innovative coursework
- Hands-on learning experiences
- Co-ops and internships
- Multidisciplinary teamwork

Would you like to pursue your own unique path in engineering, or enter an emerging field? If so, consider earning a Bachelor of Science in Engineering (BSE) degree.

The BSE degree program consists of courses fundamental to all engineering disciplines and a large number of elective courses built in to provide flexibility. You can customize your degree to fit your career goals, or select from several defined paths.

BSE Strengths
- A solid, accredited* program in basic engineering principles
- The ability to customize your engineering degree
- Access to new and innovative coursework
- Hands-on learning experiences
- Co-ops and internships
- Multidisciplinary teamwork

Would you like to pursue your own unique path in engineering, or enter an emerging field? If so, consider earning a Bachelor of Science in Engineering (BSE) degree.

The BSE degree program consists of courses fundamental to all engineering disciplines and a large number of elective courses built in to provide flexibility. You can customize your degree to fit your career goals, or select from several defined paths.

BSE Strengths
- A solid, accredited* program in basic engineering principles
- The ability to customize your engineering degree
- Access to new and innovative coursework
- Hands-on learning experiences
- Co-ops and internships
- Multidisciplinary teamwork
The BSE undergraduate degree program is accredited by the Engineering Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, telephone (410) 347-7700. Michigan Technological University is an equal opportunity educational institution/equal opportunity employer. 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.

BACHELOR OF SCIENCE IN ENGINEERING

Michigan Technological University
College of Engineering
Department of Engineering Fundamentals
112 Dillman Hall
1400 Townsend Drive
Houghton, MI 49931-1295
T: 906-487-3057
F: 906-487-1620
E: engadvisor@mtu.edu
bse.mtu.edu

CREATE YOUR EMPHASIS

Would you like to pursue your own unique path in engineering—or enter an emerging field? If so, consider earning a Bachelor of Science in Engineering (BSE) degree.

The BSE degree program consists of common fundamental and engineering disciplines and a large number of elective courses to allow students to tailor their program. You can complete your degree in 4 years or extend it to 5 years to complete one of several defined paths.

BSE Strengths
- A solid, accredited* program in basic engineering principles
- The ability to customize your engineering degree
- Access to new and innovative coursework
- Hands-on learning experiences
- Co-ops and internships
- Multi-disciplinary teamwork
- CREATE YOUR EMphasis

SHAPE YOUR DEGREE

Create your own course of study, or choose from among numerous defined paths.

Industrial Engineering
As an industrial engineer, you will evaluate the use of spatial and spatial relationships and functional groupings. You will design, plan, and supervise the operation of manufacturing processes. You will design production systems, control production processes, and plan and control storage and distribution systems. You will analyze human and machine operations to improve productivity.

Geospatial Engineering
As a geospatial engineer, you will coordinate the use of spatial data and software to solve problems in geography. You will analyze and display data in various ways, performing both descriptive and inferential analysis. You will develop computer software and data analysis models to solve complex problems.

Mining Engineering
As a mining engineer, you will design, plan, and supervise the extraction of minerals. You will plan and supervise underground and surface operations to unearth minerals economically and safely for further processing and utilization. You will plan and supervise the design, construction, and operation of mining machinery, equipment, and facilities. You will design and plan mining facilities, design and supervise the operation of mining machinery, and plan and supervise the operation of underground and surface mines.

Design your own innovative ideas into reality with an engineering degree customized to fit your interests.

Michigan Technological University
BACHELOR OF SCIENCE IN ENGINEERING
bse.mtu.edu

*The BSE undergraduate degree program is accredited by the Engineering Accreditation Commission of ABET, 111 Harker Plaza, Suite 200, Washington, D.C. 20036-0226, telephone (609) 944-0220.
During your senior year, you’ll have the chance to work with a small team of students on a senior design project. Your team will connect with an industry sponsor through an open-ended design project and provide you with the kind of experience that can launch a successful career.

Many challenges confront our planet’s inhabitants, particularly the 80 percent not typically considered by those creating infrastructure, goods, and services. Everyone must play a role in elevating the quality of life for all while ensuring that future generations can thrive. This starts with the courage to serve others and the ability to envision new solutions. Michigan Tech’s D80 Center provides education, service, and research opportunities for students interested in gaining valuable professional experience while making a difference in the lives of others. For more information, visit the D80 Center online at www.d80.com.

Cutting-edge research isn’t just for graduate students. Our goal is to nurture your interest in engineering research and help you gain awareness of the vast opportunities available right on campus. You can begin working with a faculty mentor on a research project even early in your freshman year.

Join an Enterprise team and solve real engineering, design, and communication problems. Develop marketing, business, and leadership skills. Teams are open to students from every major and operate like companies in the private sector. Join an existing team, or help create a new enterprise from the ground up. There are more than 30 teams across campus that work in areas such as aerospace, information technology, alternative fuels, energy efficient construction, FIRST Robotics, the green campus initiative, integrated microsystems, and the SAE Mini Baja competition. You can view all the teams online at www.enterprise.mtu.edu.

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find out more

Lots of Options
Find ou
Senior Design

During your senior year, you’ll have the chance to work with a small team of students on a senior design project. Your team will connect with an industry sponsor through an open-ended design project and provide you with the kind of experience that can launch a successful career.

D80 Center

Many challenges confront our planet’s inhabitants, particularly the 80 percent not typically considered by those creating infrastructure, goods, and services. Everyone must play a role in elevating the quality of life for all while ensuring that future generations can thrive. This starts with the courage to serve others and the ability to envision new solutions.

Michigan Tech’s D80 Center provides education, service, and research opportunities for students interested in gaining valuable professional experience while making a difference in the lives of others. For more information, visit the D80 Center online at www.d80.com.

Undergraduate Research

Cutting-edge research isn’t just for graduate students. Our goal is to nurture your interest in engineering research and help you gain awareness of the vast opportunities available right on campus. You can begin working with a faculty mentor on a research project early in your freshman year.

Enterprise

Join an Enterprise team and solve real engineering, design, and business problems. Develop marketable, business, and leadership skills. Teams are open to students from every major and are run like companies in the private sector. Join an existing team, or help create a new enterprise from the ground up. Choose from more than thirty teams across campus that work in areas such as aerospace, information technology, alternative fuels, energy efficient construction, FIRST Robotics, the green campus initiative, integrated microsystems, and the SAE Mini Baja competition. You can view all the teams online at www.enterprise.mtu.edu.

LOTS OF OPTIONS

As a BSE student, you have options and choices for up to 40 percent of your degree path. This will provide you with a great deal of flexibility to pursue studies that reflect your own interests. You can pick any area of study to blend with the engineering focus that you select for a technical emphasis.

Use your choices, made with the guidance of knowledgeable faculty and advisors, to complete a personalized engineering degree that can include a built-in minor or certificate as part of your degree path. Michigan Tech offers over fifty minors and eighteen certificate programs.

Come See Us

There is no substitute for seeing firsthand what Michigan Tech has to offer. We invite you to visit our campus and tour the engineering departments. Call 888-688-1885 to set things up.

Advising

Our academic advisors work with our students to map out academic choices and career development. Please feel free to get in touch. We look forward to hearing from you.

COLLEGE OF ENGINEERING

Engineering Fundamentals

112 Dillman Hall
T: 906-487-3057
E: engadvisor@mtu.edu
bse.mtu.edu

Michigan Tech

1400 Townsend Building
2110 East John Street
Houghton, Michigan 49931
T: 906-487-3057
E: engadvisor@mtu.edu
bse.mtu.edu

FIND OUT MORE
Senior Design

During your senior year, you'll have the chance to work with a small team of students on a senior design project. Your team will connect with an industry sponsor through an open-ended design project and provide you with the kind of experience that can launch a successful career.

D80 Center

Many challenges confront our planet’s inhabitants, particularly the 80 percent not typically considered by those creating infrastructure, goods, and services. Everyone must play a role in elevating the quality of life for all while ensuring that future generations can thrive. This starts with the courage to serve others and the ability to envision new solutions. Michigan Tech’s D80 Center provides education, service, and research opportunities for students interested in gaining valuable professional experience while making a difference in the lives of others. To learn more, visit the D80 Center online at www.d80.com.

Undergraduate Research

Cutting-edge research isn’t just for graduate students. Our goal is to nurture your interest in engineering research and help you gain awareness of the vast opportunities available right on campus. You can begin working with a faculty mentor on a research project early on in your freshman year.

Enterprise

Join an Enterprise team and solve real engineering, design, and communication problems. Develop marketing, business, and leadership skills. Teams are open to students from every major and operate like companies in the private sector. Join an existing team, or help create a new one from the ground up. Choose from over 30 teams across campus that work in areas such as aerospace, information technology, alternative fuels, energy efficient construction, FIRST Robotics, the green campus initiative, integrated microsystems, and the SAE Mini Baja competition. You can view all the teams online at www.enterprise.mtu.edu.

As a BSE student, you have options and choices for up to 40 percent of your degree path. This will provide you with a great deal of flexibility to pursue studies that reflect your own interests. You can pick any area of study to blend with the engineering focus that you select for a technical emphasis. Use your choices, made with the guidance of knowledgeable faculty and advisors, to complete a personalized engineering degree that can include a built-in minor or certificate as part of the degree path. Michigan Tech offers over 50 minors and eighteen certificate programs.
During your senior year, you’ll have the chance to work with a small team of students on a senior design project. Your team will connect with an industry sponsor through an open-ended design project and provide you with the kind of experience that can launch a successful career.

Many challenges confront our planet’s inhabitants, particularly the 80 percent not typically considered by those creating infrastructure, goods, and services. Everyone must play a role in elevating the quality of life for all while ensuring that future generations can thrive. This starts with the courage to serve others and the ability to envision new solutions. Michigan Tech’s D80 Center provides education, service, and research opportunities for students interested in gaining valuable professional experience while making a difference in the lives of others. For more information, visit the D80 Center online at www.d80.com.

Cutting-edge research isn’t just for graduate students. Our goal is to nurture your interest in engineering research and help you gain awareness of the vast opportunities available right on campus. You can begin working with faculty members on a research project early on in your engineering career.

Join an Enterprise team and solve real engineering, design, and communication problems. Develop marketing, business, and leadership skills. Teams are open to students from every major and operate like companies in the private sector. Join an existing team, or help create a new enterprise from the ground up. Choose from more than thirty teams that work in areas such as aerospace, information technology, alternative fuels, energy efficient construction, FIRST Robotics, the green campus initiative, integrated microsystems, and the SAE Mini Baja competition. You can view all the teams online at www.enterprise.mtu.edu.

As a BSE student, you have options and choices for up to 40 percent of your degree path. This will provide you with a great deal of flexibility to pursue studies that reflect your own interests. You can pick any area of study to blend with the engineering focus that you select for a technical emphasis.

Use your choices, made with the guidance of knowledgeable faculty and advisors, to complete a personalized engineering degree that can include a built-in minor or certificate as part of the degree path. Michigan Tech offers a variety of minors and certificates programs.

There is no substitute for seeing firsthand what Michigan Tech has to offer. We invite you to visit our campus and tour the engineering departments. Call 888-688-1885 to set things up.
The BSE undergraduate degree program is accredited by the Engineering Accreditation Commission (EAC) of ABET.

Michigan Technological University is an equal opportunity educational institution/equal opportunity employer.

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.

Would you like to pursue your own unique path in engineering, or enter an emerging field? If so, consider earning a Bachelor of Science in Engineering (BSE) degree.

The BSE degree program consists of courses fundamental to all engineering disciplines and a large number of elective courses built in to provide flexibility. You can customize your degree to fit your career goals, or select from several defined paths.

**BSE Strengths**
- A solid, accredited* program in basic engineering principles
- The ability to customize your engineering degree
- Access to new and innovative coursework
- Hands-on learning experiences
- Co-ops and internships
- Multidisciplinary teamwork

Create your own course of study, or choose from among several defined paths:

**Industrial Engineering**

As an industrial engineer, you will focus on the optimization of manufacturing processes. You will design, improve, and install production systems of people, materials, information, equipment, and energy. You will design and improve manufacturing systems to increase sustainability, reduce costs associated with new technologies, and improve worker safety and satisfaction.

**Geospatial Engineering**

As a geospatial engineer, you will combine the use of spatial information and analysis with techniques such as geographic data, geospatial analysis, image analysis, remote sensing, global positioning satellite systems, land and water management systems, environmental technologies, and more.

**Service Systems Engineering**

As a service systems engineer, you will develop ways to make service sector industries function smoothly and efficiently. You will design, operate, and optimize service systems of people, materials, information, equipment, and energy. Emphasis is on process over product, and the human side of engineering.

Create your innovative ideas into reality with an engineering degree customized to fit your interests.

*baccalaureate-engineering-degrees-ahead-of-time-of-admission-to-engineering-program

bse.mtu.edu