2026-27 Academic Year

WAYNE STATE COLLEGE

ENGINEERING TECHNOLOGY

Engineering technology is a practical application of science and engineering to a wide range of real-world challenges. Wayne State College now offers a new program in this field, the only one of its kind in Nebraska. With a degree in Engineering Technology, you'll be prepared to work with engineers on a wide variety of projects using basic engineering principles and technical skills. The work will focus on product improvement, manufacturing, construction, and engineering operational functions. As an engineering technologist, you'll oversee the use of technologies recommended by engineers, train and provide support for end users, assist engineers in data gathering and assessment technologies, and provide other support to engineers and the organizations they serve. While engineers focus on the theoretical aspects, a degree in Engineering Technology will lead you to a career in using practical skills and a conceptual understanding of science to achieve your goal.

fast facts

Credit hours: 56-58

Students must also take 30 credit hours of General Studies courses. A total of 120 credit hours are needed to graduate from WSC. Additional majors or minors can be added to help meet graduation requirements.

Degree options: B.A. or B.S.

Department: Technology and Applied Science

School: Business and Technology

Popular pairings: Safety Management

focus on results

Skills Learned

- Manufacturing and drafting
- Manufacturing technology
- Material science and composite material
- CNC machining
- Electronics and controls
- Computer integrated manufacturing
- Project management
- Robotics
- Economics
- Statistics

Possible Careers

- Electrical engineering technologist
- Production manager
- Material manager
- Manufacturing technologist
- Maintenance technologist
- Mechanical design drafter
- Construction engineering technologist
- Architectural engineering technologist

Types of Employers

- Construction companies
- Architecture firms
- Engineering firms
- Infrastructure companies
- Government / federal agencies
- Fabrication companies
- Schools, colleges, and universities
- Transportation companies
- Power and utility companies

outside the classroom

Visit www.wsc.edu/clubs to learn more about clubs and organizations on campus.

Activities / Opportunities

- Career Scholars Program
- Peer tutoring and mentoring
- Service-Learning

Clubs / Organizations

- Drafting and Design Club
- Epsilon Pi Tau
- SkillsUSA

Courses and outcomes

2026-27 Academic Year

The following courses are required for the program of study described on this sheet. Every effort is made to ensure this information is current, but please be aware that some content may have changed. To develop a plan for registering and taking these courses, please consult the current academic catalog and your advisor.

Program courses

ITE 111 Introduction to Safety is recommended.

Engineering Technology Courses

BUS 485 Introduction to Predictive Analytics	3
CHE 106 General Chemistry I	4
CIS 477 Project Management	3
ECO 345 Engineering Economics	3
ITE 114 Introduction to Applied Engineering and Technology	3
ITE 205 Introduction to Manufacturing Technology	3
ITE 212 Material Science-Strength of Materials	3
ITE 219 Mechanical and Engineering Drafting	3
ITE 220 Introduction to Manufacturing Operations	3
ITE 303 Composite Materials	3
ITE 322 Fundamentals of CNC Machining	3
ITE 403 Electronics and Control Systems	3
ITE 421 Computer Integrated Manufacturing and Robotics	3
ITE 422 Advanced CIM and Robotics	3
ITE 497 Internship	5-6
Select one of the following	5
MAT 130 Precalculus (5)	
MAT 140 Calculus I (5)	
Select one of the following	3-4
PHY 201 General Physics I (3)	
PHY 301 University Physics I (4)	

Student learning outcomes

1. Apply engineering theories and concepts to solve technical problems
2. Utilize equipment and technology that is relevant to the engineering industry
3. Demonstrate effective skills in written, oral, and graphical communication
4. Work in a team environment to solve engineering problems

engineering technology faculty

Visit www.wsc.edu/technology-applied-science-department to learn more about the Department of Technology and Applied Science.

Gerard Ras, Ph.D.
Dean
402-375-7246
Gardner Hall 105
geras1@wsc.edu

John Vinchattle, M.S.
Associate Dean
402-375-7347
Gardner Hall 106B
jovinch1@wsc.edu

Jeff Allen, Ed.D.
Erin Arneson, Ph.D.
Dylan Cerny, MSE
Hannah McGill, M.S.
Dan Mitchell, MSE
Jessie Piper, MSE
Grant Schrick, M.S.

Revised on: 7/22/26