2026-27 Academic Year

WAYNE STATE COLLEGE

INDUSTRIAL TECHNOLOGY >

MANUFACTURING MANAGEMENT

Nebraska is one of the top three states with the fastest growth in technology jobs. For companies to prosper, they need employees with the ability to design, deploy, integrate, and manage emerging technologies as well as traditional resources. From 3D printing, robotics, and CNC machining, to advanced software solutions in construction, manufacturing, and planning and design, the Manufacturing Management degree program at Wayne State College will prepare you for a career as a manufacturing manager, a production supervisor, or an applied engineer. Combining technical content with business knowledge in the Manufacturing Management degree program, you will be well-suited for a wide variety of career opportunities solving challenging manufacturing problems.

fast facts

Credit hours: 63

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 offered: B.S.

Department: Technology and Applied Science

School: Business and Technology

Popular pairings: Construction Management, Drafting and Design, Safety Management, Spanish

focus on results

Skills Learned

- Applied engineering
- Manufacturing operations
- Computer numeric control (CNC) machining
- Production techniques
- Computer integrated manufacturing
- Robotics
- Production planning
- Quality control
- Order fulfillment
- Problem-solving, research, and design

Possible Careers

- Manufacturing manager
- Production supervisor
- Applied engineer
- Building materials manager
- Plant manager
- Inventory manager
- CNC programmer/estimator

Types of Employers

- Manufacturers
- Fabrication companies
- Transportation equipment manufacturing companies
- Chemical manufacturing companies
- Machinery manufacturing companies
- Food manufacturing 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

- Epsilon Pi Tau
- FBLA Collegiate
- SkillsUSA

Courses and outcomes

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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

For CAT 3, take one of the following: MAT 110 Contemporary Applications of Mathematics, MAT 121 College Algebra, MAT 130 Precalculus, MAT 140 Calculus I, or MAT 180. Take PHS 102 Physical Science Today for CAT 7.

Industrial Technology Core Courses

BIO 104 Environmental Concerns for General Studies 3
BUS 208 Business Communications 3
BUS 471 Principles of Supervision 3
CIS 477 Project Management 3
ITE 111 Introduction to Safety 3
ITE 114 Introduction to Applied Engineering and Technology 3
ITE 202 Construction Systems 3
ITE 205 Introduction to Manufacturing Technology 3
MAT 118 College Mathematics for Industrial Technology 3

Manufacturing Management Concentration Courses

CIS 171 Networking I 3
CIS 366 Introduction to Database 3
ITE 219 Mechanical and Engineering Drafting 3
ITE 220 Introduction to Manufacturing Operations 3
ITE 306 Industrial Safety 3
ITE 309 Parametric Modeling and Industrial Design 3
ITE 322 Fundamentals of CNC Machining 3
ITE 330 Welding Theory and Fabrication 3
ITE 403 Electronics and Control Systems 3
ITE 421 Computer Integrated Manufacturing and Robotics 3
ITE 422 Advanced CIM and Robotics 3
Select one of the following 3
ITE 494 Coop Ed Program (3)
ITE 497 Internship (3)

Student learning outcomes

1. Demonstrate effective skills in written, oral, and graphical communication
2. Apply current technologies and tools to identify and solve problems in industrial settings
3. Implement occupational and personal safety, health, and well-being principle
4. Apply management and leadership skills in industrial technology

industrial technology faculty

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

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