MANUFACTURING ENGINEERING TECHNOLOGY

Manufacturing involves plans, materials, personnel, and equipment, which are transformed in some way that adds value. Students acquire the leadership and managerial skills necessary to enter careers in process and systems design, manufacturing operations, maintenance, technical sales, or service functions. The curriculum concentrates on the study of individual subsystems and their overall optimization of cost, quality, speed, and flexibility goals for the success of a manufacturing enterprise.

PROGRAMS



DEGREES AND CERTIFICATES

- Bachelor of Science in Manufacturing Engineering Technology
- Manufacturing Engineering Technology Minor
- Master of Science in Manufacturing Engineering Technology
- Professional Science Masters in Engineering Management
- Project Management Graduate Certificate
- Quality Management Systems Graduate Certificate

ABOUT THE PROGRAM

Manufacturing Engineering Technology is a four-year BS degree that provides a broad technical background for students. Proficiency in engineering methods and mathematics enables graduates to take advantage of opportunities for advancement in many directions.

REAL-WORLD CONNECTIONS

SKILLS AND TALENTS

Lean Manufacturing

Communication Skills

• CAD

CAREERS

- Manufacturing Engineer
- Fabrication Lead
- Facility Engineer
- Field Engineer
- Product Manager
- Project Engineer

EMPLOYERS

- 3M
- Cambria
- Crown Cork & Seal
- Johnson Outdoors
- Kato Engineering
- Nortech Systems

INSPIRED ACTION

EMPLOYMENT RATE

94.1%

of program graduates begin their careers within one year of graduation.

Graduates: 97 Respondents: 86 link.mnsu.edu/graduate-follow-up

MEDIAN SALARY

\$99,380 The median annual wage for Industrial Engineers in May 2023.

Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, Industrial Engineers, at <u>link.mnsu.edu/</u> <u>manufacturing-engineering-technology-salary</u>

PROGRAM WEBSITE



<u>cset.mnsu.edu/met</u>

MINNESOTA STATE

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Process Improvement
Product Quality and Design
Project Management

SAMPLE FOUR-YEAR PLAN - MANUFACTURING ENGINEERING TECHNOLOGY, BS

First Year (Fall)	First Year (Spring)
MET 104 Introduction to Manufacturing Engineering Technology (1) MET 142 Computer Parametric Modeling (3) MATH 121 Calculus I (4) CHEM 104 Introduction to Chemistry (3) ENG 101 Foundations of Writing & Rhetoric (4)	COMM 100 Fundamentals of Communication (3) COMM 102 Public Speaking (3) EET 113 DC Circuits (3) MATH 122 Calculus II (4) STAT 154 Elementary Statistics (4) General Education Course (3)
Second Year (Fall)	Second Year (Spring)
ECON 202 Principles of Microeconomics (3) PHYS 211 Principles of Physics I (4) ENG 271W Technical Communications (4) MET 275 Manufacturing Process I (4) General Education Course (1)	PHYS 212 Principles of Physics II (4) AET 334 Fluid Power (3) MET 323 Statics (3) MET 341 Advanced Parametric Modeling (3) General Education Course (3)
Third Year (Fall)	Third Year (Spring)
MET 324 Strength of Materials & Dynamics (4) MET 375 Manufacturing Process II (4) MET 386 Metrology for Engineering Technologist (3) MET 424 Industrial Safety (2) MET 425 Project and Value Management (3)	MET 347 Manufacturing Automation (4) MET 423 Ergonomics & Work Measurement (3) MET 424 Industrial Safety (2) MET 427 Quality Management Systems (3) MET 428 Lean Manufacturing (3) General Education Course (4)
Fourth Year (Fall)	Fourth Year (Spring)
MET 407 Manufacturing Resource Plan & Control (3) MET 426 Logistics & Transportation (3) MET 448 Computer Integrated Manufacturing (3) MET 488 Senior Design I (2) Elective Course (Internship Optional) (5)	MET 455 Project and Value Management II (3) MET 489 Senior Design Project II (2) General Education Course (3) Elective Credits (Internship Optional) (6)

For more information about program requirements, visit: <u>mnsu.edu/academics/academic-catalog</u>

LEARN MORE

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