

Manufacturing Engineering Technology (with optional Manufacturing Engineering BS from UW-Stout) Associate Degree

Program Code 106233

A skilled workforce is needed in the manufacturing/production operations and/or manufacturing/production services for the design and development of new products, production systems, processes, operations, services, quality control, continuous improvement, lean principles, manufacturing competitiveness, and sustainability. As a Manufacturing Engineering Technology associate degree graduate, you're prepared for a career as a technologist to apply the fundamentals of materials selection, tooling, assembly and automation to the solution of manufacturing and production related activities. This unique program transfers into the University of Wisconsin-Stout's bachelor of science degree in Manufacturing Engineering.

Average
Starting Salary
\$45,219.00
FT Median Annual Wage

75%
Graduate
Employment
With 100% Employed in
Field

Job Openings:
3*

Locations

Offered at the Green Bay campus.

Follow Your Path

Ask your advisor about 2+2 transfer opportunities.



Approximate Cost

\$13,250.00

(Tuition: \$10,300.00, Books: \$2,500.00, Supplies: \$450.00)

This program is fully eligible for financial aid.

Requirements for Program Entry

- Completed application.
- High school transcript or equivalent. (For a list of equivalents, go to www.nwtc.edu/gettingstarted.)
- One year high school algebra or one year advanced math (Geometry, Algebra II, or Trigonometry) or equivalent passed with a "C" grade or better in each semester.
- To be admitted to this program, learners must achieve a prior cumulative high school or college grade point average of 2.6 or higher OR a satisfactory academic skills assessment score. College grade point average must be based on 15 credits or more. To learn more about starting this program, please contact an academic advisor at (920) 498-5444 or (888) 385-6982.

CURRICULUM

Manufacturing Engineering Technology is an Associate Degree with the opportunity to complete a bachelor's degree at UW-Stout. Students following the study plan below will complete the Manufacturing Engineering Technology associate degree in the number of semesters shown.

FIRST SEMESTER

10-623-170	Engineering Materials - Intro	3
10-801-136	English Composition 1	3
10-804-197	College Algebra & Trig w Apps	5
10-806-135	College Chemistry	5
10-890-101	College 101	1
SEMESTER TOTAL		17

SECOND SEMESTER

10-606-116	CAD-Intro	1
10-620-170	Robotics - Introduction to	1
10-623-104	Continuous Improvement Fund	1
10-623-171	Fund of Plastic Materials Proc	3
10-623-175	Casting and Joining Processes	3
10-801-198	Speech	3
10-804-198	Calculus 1	4
SEMESTER TOTAL		16

SUMMER SEMESTER

10-623-166	Manufacturing Engr Internship	1
SEMESTER TOTAL		1

THIRD SEMESTER

10-420-170	Material Removal/Forming	3
10-606-211	Mech AutoCAD Fundamentals	2
10-623-117	Statics	3
10-664-102	Automation 3: PLC	1
10-664-103	Automation 4: PLC	1
10-664-104	Automation 5: PLC	1
10-809-172	Intro to Diversity Studies	3
10-809-198	Intro to Psychology	3
SEMESTER TOTAL		17

FOURTH SEMESTER

10-420-168	Computer Aided Manufacturing	3
10-606-210	SW Fund, Assemblies, Dwgs	3
10-623-118	Dynamics	3
10-623-167	Engineering Economy	2
10-623-169	Lean Manufacturing Systems 1	2
10-664-105	Automation 6: PLC	1
10-804-181	Calculus 2	4
SEMESTER TOTAL		18

TOTAL CREDITS

69

Curriculum Note

- The credit for 10-890-101, College 101 is an Institutional Requirement for graduation. Consequently, it is not part of the program requirements, but must be passed with a C.
 - The following UW-Stout courses are required for Bachelor of Science Degree completion:
- SUMMER AFTER SEMESTER FOUR
- MATH-250 Differential Equations/Linear Alg (3 credit)
 - ENGR-275 Thermodynamics/Heat Transfer (3 credit)
- SEMESTER FIVE
- CHEM-341 Chemistry of Materials (4 credit)
 - ENGR-294 Mechanics of Material (3 credit)
 - PHYS-282 University Physics II (5 credit)
- SEMESTER SIX
- ENGR-391 Fluid Mechanics (WINTRM) (3 credit)
 - ENGR-290 Circuits & Devices (4 credit)
 - STAT-330 Probability & Statics (3 credit)

* Program-related job openings, full- and part-time, within our district, via EMSI. Many programs have additional job opportunities outside of district. Learn more at www.nwtc.edu/graduatesuccess

INMGT-422 Quality Engineering (3 credit)
SUMMER AFTER SEMESTER SIX
GEN ED Humanities (3 credit)
SEMESTER SEVEN
MFGE-351 Mfg. Process Engineering I (3 credit)
INMGT-435 Facilities/Mat'l Handling (WINTRM) (2 credit)
ENGR-365 Control Theory (2 credit)
MFGE-405 Capstone I: Product/Syst. Design (3 credit)
MFGE-441 Design of Jigs/Fixtures/Tooling (3 credit)
GEN ED English Comp 2 (3 credit)
SUMMER AFTER SEMESTER SEVEN
GEN ED Social Responsibility/Ethical Reasoning (3 credit)
SEMESTER EIGHT
10-623-172 Robotic Vision Systems (NWTC) (1 credit)
MFGE-440 Design/Simulation Mfg. Systems (3 credit)
MFGE-410 Capstone II: Mfg. Syst. Design (3 credit)
GEN ED Humanities (Digital Photography) (3 credit)
GEN ED Contemporary Issues(Cont Am Society) (3 credit)
MFGE-352 Mfg. Process Engineering II (3 credit)