The demand for trained mechanical engineering technicians, knowledgeable in both the theory and application of engineering principles, continues to grow. These professionals serve as the link between engineers and craftsmen, and the Mechanical Engineering Technology Program provides that foundation.

The objective of the Mechanical Engineering Technology Program is to train professionals capable of assuming responsible positions in drafting, CADD, CMM, geometric tolerancing, manufacturing processes, material testing, fluid power, heat power, refrigeration, stress analysis, machine design and instrumentation as well as being able to pursue their education toward a bachelor’s degree.

Comprehensive in nature, the Mechanical Engineering Technology Program offers an in-depth study of mechanical engineering technology courses as well as liberal arts and social science courses. Analytical mechanics, strength of materials, fluid mechanics and electricity for mechanical equipment are among the subjects covered in the curriculum. The Mechanical Engineering Technology courses are enriched with laboratory experiences. The program is completed with composition, literature, ethics, and social science courses, which help students to better communicate and to participate in meaningful interpersonal relationships.

Curriculum

Total Degree Credits: 64.0

Full-time Students

The course sequence suggested in this brochure for full-time and part-time students is just one approach to complete the program. Alternate course sequence completions may be suggested to MET students based on their needs, backgrounds, course pre-requisites, and course availability.

First Year, Fall Semester

- ME 106 Drafting & CAD with Solidworks ................................................. 4 cr
- ME 155 Manufacturing Process & Materials I/Laboratory.................... 3 cr
- ME 121 Technical Math I or Higher...................................................... 4 cr
- EN 100 Comp I: Rhetorical Strategies.................................................. 3 cr

First Year, Spring Semester

- ME 114 Analytical Mechanics ............................................................. 3 cr
- ME 170 Manufacturing Process & Materials II/Laboratory............... 3 cr
- ME 180 Instrumentation/Laboratory ..................................................... 2 cr
- MT 122 Technical Math II or Higher ..................................................... 4 cr

First Year, Summer

- MH 140 Motor Control........................................................................... 3 cr
- MH 144 Industrial Programmable Logic Controllers ....................... 3 cr
- PH 190 Basic Physics or Higher............................................................. 3 cr
- PH 191 Lab for PH 190 or Higher........................................................... 1 cr
- HU 100 Human Interaction .................................................................. 3 cr

Second Year, Fall Semester

- ME 256 Mechanics of Materials/Laboratory................................. 3 cr
- ME 265 Geometric Dimen. & Tolerancing/Laboratory ......................... 3 cr
- MH 106 Pneumatic and Hydraulics....................................................... 3 cr
- EN 102 Composition for the STEM Disciplines................................. 3 cr

Second Year, Spring Semester

- ME 286 Heat, Power and Refrigeration/Laboratory ......................... 3 cr
- MH 100 Fundamentals of Electronics................................................... 3 cr
- ME 293 Machine Design/Laboratory ..................................................... 4 cr
- ME 298 Internship or Tech Elective ....................................................... 3 cr

Career Paths

To assume positions as a mechanical technician or continue their education toward a bachelor’s degree.

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Northland Workforce Training Center

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