Industrial Technology (IT)

IT 100. Introduction to Technology. 3 Credits.
This course is a survey course designed to familiarize students with the educational requirements, talents, and responsibilities for careers related to industrial and engineering technology. The content of this course should provide the framework for materials to be presented in future math, science, industrial, and engineering technology courses.

IT 105. Industry Foundations. 4 Credits.
This foundation course leads to a variety of industry certifications and professional standards needed to be successful in a career in the technical sciences. These foundations are conditional as entry-level requirements for employers of most graduates in the College of Technical Sciences at Montana State University - Northern.

IT 109. Introduction to Woodworking. 3 Credits.
Introduction to Woodworking.

IT 111. Industrial Safety/Waste Mgmnt. 2 Credits.
A course designed to familiarize the student with proper safety practices and procedures. Course content will include protective clothing, handling of hazardous materials, OSHA regulations, workman's compensation, and first aid. Also, safe practices in using hand and power tools, scaffolds and ladders, chains and cables, compressed gasses, proper storage of tools and chemicals, and handling of hazardous waste will also be addressed. Course Fees: $6.10

IT 115. Construction Tech Fndmntls. 3 Credits.
This course introduces basic concepts in safety, construction math, hand and power tools, blueprint reading, and basic rigging. This course covers safety in the operation of a variety of hand and power tools. It includes reading simple construction-related blueprints as well as overhead crane hand signals. Thermal and moisture protection using common insulating and vapor systems will be covered.

IT 130. Construction Technology. 3 Credits.
This course provides a study of contemporary principles and practices used in the construction industry with emphasis on the techniques used for interior and exterior building construction. Civil construction is also covered. Activities may include construction of a scale model or a community construction project.

IT 191. Special Topic. 3 Credits.
Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number.

IT 192. Independent Study. 3 Credits.
Provides an opportunity for students to engage in directed research and study on an individual basis rather than in a formal class environment.

IT 210. Energy/Power Technology. 3 Credits.
Energy/Power Technology will examine energy sources, power generation, power transmission and control systems, resistance, power measurement, and devices that provide mechanical force. This course will concentrate on applications of electrical, electronic, mechanical, and fluid power systems as they apply to the manufacturing, communications, and construction industries.

IT 291. Special Topic. 3 Credits.
Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number.

IT 391. Special Topic. 3 Credits.
Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number.

IT 498. Cooperative Education. 1-12 Credits.
A planned and supervised work-learning experience in industry, business, government, or community service agencies related to the University program of study. Prerequisites: two semesters of attendance at Montana State University-Northern, approval of advisor, Dean of the College of Technical Sciences, and cooperative education coordinator. Pass/Fail Only.