

# MANUFACTURING TECHNOLOGY

## Faculty

Graham, Steinle

This program is designed to prepare students for the manufacturing with automation control industry. Students will receive the basics in machine tool and welding skills as well as hands-on courses in industrial control processes.

## Associate of Applied Science Degree Manufacturing Technology

### (Recommended Curriculum)

General Education (Minimum 17 credits) Credits  
General education coursework can be completed from within or outside of the major field of study.

1. Exploration and Participation  
MATH 1000 Problem Solving . . . . . 3
2. Communication (One course minimum) . . . . . 3
3. Relationship with the World (One course minimum)  
POLS 1000 American and Wyoming  
Government . . . . . 3
4. General Education Electives  
Must be chosen from areas 1, 2, or 3 above.
5. Physical Education . . . . . 1

### Major Requirements

- CMAP 1750 Spreadsheet Applications I . . . . . 1
- ENTK 1510 Drafting I . . . . . 4
- ENTK 1650 Mechanical Drafting and Design I . . . . . 4
- ENTK 2510 CAD-3D Modeling . . . . . 4
- MCHT 1610 Machine Tool Technology I . . . . . 2
- MCHT 1620 Machine Tool Technology II. . . . . 2
- MCHT 2780 Computer Numerical Control (CNC)  
Machining Center. . . . . 4
- MCHT 2790 Computer Numerical Control (CNC)  
Turning Center . . . . . 4
- MCHT 2800 Computer Assisted Manufacturing . . . . . 3
- WELD 1700 General Welding. . . . . 2.5
- WELD 1820 GMAW/GTAW Welding. . . . . 2.5
- WELD 1910 Specialized Welding and Jointing. . . . . 3
- WELD 2680 Welding Metallurgy . . . . . 3
- \*Electives . . . . . 9

\*Electives must be chosen from courses in the following programs: machine tool technology, welding, or robotics..

A minimum of 64 approved semester credits are required for graduation. For specific graduation requirements see "Academic Policies" and "Degree Requirements."

## Manufacturing Technology Certificate

### Certificate Requirements (Minimum 30 Credits)

- ENTK 1510 Drafting I . . . . . 4
- ENTK 1650 Mechanical Drafting and Design I . . . . . 4
- ENTK 2510 CAD-3D Modeling . . . . . 4
- MCHT 1640 Basic Machining . . . . . 10
- MCHT 2780 Computer Numerical Control (CNC)  
Machining Center . . . . . 4
- MCHT 2790 Computer Numerical Control (CNC)  
Turning Center . . . . . 4
- MCHT 2800 Computer Assisted Manufacturing . . . . . 3
- WELD 1700 General Welding. . . . . 2.5
- WELD 1820 GMAW/GTAW Welding. . . . . 2.5
- WELD 1910 Specialized Welding and Jointing. . . . . 3
- WELD 2680 Welding Metallurgy . . . . . 3

For specific graduation requirements see "Academic Policies" and "Degree Requirements."

ONLY COURSES NUMBERED 1000 OR ABOVE CAN BE USED TOWARD THE ASSOCIATE OF ARTS, ASSOCIATE OF SCIENCE, ASSOCIATE OF BUSINESS, ASSOCIATE OF FINE ARTS AND ASSOCIATE OF APPLIED SCIENCE DEGREES.