Engineering Technology: Manufacturing and Mechanical Engineering Technology AS

Program Learning Outcomes
1. Read the drawing for an object and visualize the geometry.
2. Choose the correct manufacturing method for the object.
3. Manufacture an object from a given drawing using machine tools.
4. Use algebra, spreadsheets, and measurement data to produce QC statistics.
5. Verify that products meet the design criteria.
6. Design and prototype mechanical parts under the supervision of engineers.
7. Use computer integrated manufacturing (CIM) and computer numerical control (CNC) software for automation of manufacturing.

Entry

Required
- ENGIN 119 Introduction to Technical Drawing
- ENGC 160 Introduction to Industrial and Manufacturing Engineering
- ENGC 126 Computer Aided Design and Drafting – AutoCAD
- ENGC 129 Product Design I Using Solidworks
- ENGC 162 Geometric Dimensioning and Tolerancing
- ENGC 165 Machining and Manufacturing I
- ENGC 166 Machining and Manufacturing II
- ENGC 168 Introduction to Computer Numerical Control
- ENGC 160 Introduction to Industrial and Manufacturing Engineering
- ENGC 162 Geometric Dimensioning and Tolerancing
- ENGC 165 Machining and Manufacturing I
- ENGC 166 Machining and Manufacturing II
- ENGC 168 Introduction to Computer Numerical Control

Elective
- MATH 120 Intermediate Algebra
- MATH 121 Plane Trigonometry
- MATH 191 Pre-Calculus
- ENGC 111 Mathematics for Technicians
- ENGC 126 Computer Aided Design and Drafting – AutoCAD
- ENGC 129 Product Design I Using Solidworks
- ENGC 226 Computer Aided Design and Drafting, Advanced Concepts – AutoCAD

Careers in
- Manufacturing technician
- Fabrication

You need to see a Counselor for specific recommendations about courses that will best meet your educational goals. Not all courses on the map are offered every term. Consult the Catalog and the Schedule of Classes for more details.

For information about transferring, see: https://www.dvc.edu/enrollment/transfer/index.html

For information on careers in this field see: https://www.dvc.edu/enrollment/career-employment/index.html

Fall 2018-2019 Catalog

4-23-2019