Complete 60 degree applicable units along with completion of all required general education requirements. It is highly recommended that you see a counselor for specific courses that will best meet your educational plan/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

**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.

**Engineering Technology: Manufacturing and Mechanical Engineering Technology AS**

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

**TAKE 2**
- **ARCHI 137** Digital Fabrication and Prototyping
- **ENGTC 126** Computer Aided Design and Drafting – AutoCAD
- **ENGTC 129** Product Design I Using Solidworks
- **ENGTC 168** Introduction to Computer Numerical Control
- **ENGTC 126** Computer Aided Design and Drafting, Advanced Concepts – AutoCAD

**Careers in**
- Manufacturing technician
- Fabrication