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

3-11-2021

Industrial Design Certificate of Achievement

**Required**
- ARCHI 135 Digital Tools for Design
- ENGT 119 Introduction to Technical Drawing
- IDSGN 105 Assembly and Fabrication Workshop
- IDSGN 120 Introduction to Industrial and Product Design
- ART 102 Introduction to Three-Dimensional Design and Sculpture
- ENGTC 126 Computer Aided Design and Drafting-AutoCAD
- IDSGN 121 Industrial and Product Design Foundations
- ART 105 Drawing I
- ENGTC 119 Introduction to Technical Drawing
- IDSGN 107 Furniture Design Studio
- IDSGN 107 Furniture Design Studio
- ENGTC 165 Manufacturing Processes: Material Machining I
- ENGT 168 Introduction to Computer Numerical Control
- IDSGN 220 Soft Goods Product Design Studio
- IDSGN 221 Transportation Design Studio

**PLUS at least 3 units from**
- ENGTC 129 Product Design I Using SolidWorks
- IDSGN 221 Transportation Design Studio

**Total minimum required units** 29

**Program Learning Outcomes**

Students completing this program will be able to:

1. Work within a team of diverse industry professionals to establish and meet design criteria.
2. Use advanced consumer research techniques to better understand human-centered design.
3. Design a product using two-dimensional and three-dimensional computer software.
4. Develop detailed technical drawings of a product.
5. Determine the most efficient and responsible manufacturing method for the product.
6. Prototype an object from a given technical drawing or three-dimensional CAD model.
7. Design and prototype mechanical parts in collaborating with engineers.
8. Use computer integrated manufacturing (CIM) and computer numerical control (CNC) software for automation of manufacturing.

**Careers in**

- Prepares students for a career as an industrial design intern, modeler or designer offering technical support, design, and modeling and fabrication assistance in an industrial design office.