Engineering Technology: Civil Design Drafting Technology AS

- **Required**
  - CONST 114 Blueprint Reading
  - ENGIN 121 Engineering Drawing/Descriptive Geometry
  - PHYS 110 Elementary Physics*

- **Elective**
  - DVC II

- **DVC GE category**
  - EXIT

- **Entry**

- **TAKE 1**
  - **TECHNICAL DRAWING**
    - ARCHI 119 Introduction to Technical Drawing
    - ENGT 119 Introduction to Technical Drawing
  - **CADD**
    - ARCHI 126 Computer Aided Design and Drafting – AutoCAD
    - ENGT 126 Computer Aided Design and Drafting – AutoCAD
  - **ADVANCED CADD**
    - ARCHI 226 Computer Aided Design and Drafting, Advanced Concepts – AutoCAD
    - ENGT 226 Computer Aided Design and Drafting, Advanced Concepts – AutoCAD

- **TAKE 2**
  - **CONST 116 Plane Surveying**
  - **ENGTC 140 Plane Surveying**
  - **ENGT 123 Principles of Civil Drafting**
  - **GEOG 125 Introduction to Geographic Information Systems (GIS)**
  - **GEOG 126 Advanced Geographic Information Systems (GIS)**
  - **GEOG 160 Introduction to Remote Sensing**
  - **GEOG 162 Map Design and Visualization**

- **TAKE 1**
  - **GEOGRAPHY**
    - GEOG 124 Thinking and Communicating Geospatially
    - GEOG 129 Field Data Acquisition and Management
  - **GEOG 121 Math for Technicians**
  - **MATH 121 Plane Trigonometry**
  - **MATH 191 Pre-Calculus**

- **Careers in**
  - Civil engineering technician
  - Survey and map technician
  - Civil/Architecture drafters

**PROGRAM LEARNING OUTCOMES**
1. Use technical drafting principles to develop technical drawings.
2. Interpret construction blueprints.
3. Use geometric construction and descriptive geometry to solve geometric problems.
4. Create 2-dimensional and 3-dimensional computer aided drawings (CAD).
5. Interpret global positioning data.
6. Measure land forms using ground surveying equipment.
7. Apply trigonometry to math problems.
8. Apply the basic laws of physics to everyday situations.

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

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