Entry

**Program Learning Outcomes**

1. Apply the skills and knowledge acquired to analyze issues, solve problems, and critically evaluate a proposal or a process.
2. Use appropriate quantitative tools to answer scientific questions, represent data, and document scientific findings.
3. Demonstrate effective communication with fellow team members, the public, and members of the scientific community, using written, oral, and visual communication methods.
4. Safely and appropriately use standard laboratory or field equipment to make precise and reliable measurements.
5. Analyze the internal focus and moments in statically determinate structures.

**Course Map**

- **Required Courses**
  - ENGIN 110: Introduction to Engineering
  - ENGIN 120: Engineering Drawing
  - MATH 192: Analytic Geometry and Calculus I
  - MATH 193: Analytic Geometry and Calculus II
  - MATH 194: Differential Equations
  - PHYS 130: Physics for Engineers and Scientists A: Mechanics and Wave Motion
  - PHYS 230: Physics for Engineers and Scientists B: Heat and Electromagnetism
  - ENGIN 230: Introduction to Circuits and Devices
  - ENGIN 240: Properties of Engineering Materials
  - ENGIN 255: Statics

- **Take 1 Courses**
  - ENGIN 135: Programming for Scientists and Engineers
  - ENGIN 136: Computer Programming for Engineers using MATLAB
  - ENGIN 140: Plane Surveying
  - ENGIN 257: Statics and Strength of Materials

**Careers in**
- Engineering design
- Construction

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](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](https://www.dvc.edu/enrollment/career-employment/index.html)

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