## General Engineering

**Requirements for the Major:** 22.5 courses, distributed as follows:

- **4 Foundations of Science 1-4**
- **4 Engineering Common Courses**
- **4 Mathematic Courses:** Calculus; Multivariable Calculus; Fnd. of Linear Algebra (2 cr); Fnd. of Ordinary Differential Equations (2 cr); Probability & Statistics (2 cr); and Fnd. of Discrete Mathematics (2 cr)
- **1.5 Discipline-specific Required Courses (6 credits)**
  - Fnd. of Linear Algebra (2 cr)
  - Fnd. of Ordinary Differential Equations (2 cr)
  - Probability & Statistics (2 cr)
  - Fnd. of Discrete Mathematics (2 cr)
- **7 Discipline-specific Elective Courses (28 credits)**
- **2 Capstones: Project and Seminar**

### Year 1

#### Fall Semester
- Foundations of Science 1
- Foundations of Science 2
- ECC: Computer Programming for Engineers
- First-year Writing Seminar

#### Spring Semester
- Multivariable Calculus
- Foundations of Science 3
- Foundations of Science 4
- Colloquium

### Year 2

#### Fall Semester
- Linear Algebra
- Differential Equations
- General Elective
- General Elective
- Core

#### Spring Semester
- ECC: Statics
- ECC: Conservation Laws
- Engineering Elective
- Core

### Year 3

#### Fall Semester
- Probability & Statistics
- ECC: Numerical Methods
- Engineering Elective
- Engineering Elective
- Colloquium

#### Spring Semester
- Engineering Materials
- Discrete Mathematics
- Engineering Elective
- Engineering Elective
- General Elective

### Year 4

#### Fall Semester
- Capstone Seminar
- Instrumentation
- Engineering Elective
- Core

#### Spring Semester
- Capstone Design I
- Engineering Elective
- General Elective
- Core