Mechanical Engineering

Stronger Math Preparation

Sample Schedule

Year 1

Fall Semester
- Foundations of Science 1
- Foundations of Science 2
- ECC: Computer Programming for Engineers
- Multivariable Calculus

January Term
- ECC: Design & Innovation

Spring Semester
- Foundations of Science 3
- Foundations of Science 4
- Colloquium
- First-year Writing Seminar

Year 2

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

January Term
- General Elective

Spring Semester
- ECC: Circuits
- Solid Mechanics
- Engineering Ethics
- ECC: Statics
- Dynamics
- ECC: Conservation Laws
- Fluid Mechanics
- Core

Year 3

Fall Semester
- Thermodynamics
- Heat Transport
- Probability & Statistics
- ECC: Numerical Methods
- Structural Components
- Machine Component Design
- Colloquium
### Year 4

#### Fall Semester
- Capstone Seminar
- Instrumentation
- Mechanical Engineering Elective
- Core
- Capstone Design I
- ECC: Digital logic
- Discrete Mathematics
- Thermal Energy Systems
- Core

#### Spring Semester
- Capstone Design II
- Mechanical Engineering Elective
- General Elective
- Core
- Instrumentation
- ECC: Digital logic
- Discrete Mathematics
- Thermal Energy Systems
- Core

### Course / Credit Key

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### Major: Required
- ECC: Digital logic
- Discrete Mathematics
- Thermal Energy Systems
- Core

### Major: Electives
- Capstone Seminar
- Instrumentation
- Mechanical Engineering Elective
- General Elective
- Capstone Design I
- Capstone Design II
- Instrumentation
- ECC: Digital logic
- Discrete Mathematics
- Thermal Energy Systems
- Core

### Capstone
- Capstone Design I
- Capstone Design II
- General Elective
- Core