

# Mechanical Engineering

## Sample Schedule

You should discuss with your major mentor before proceeding with the following schedule

### Year 1

Fall Semester

Calculus with Applications or  
Calculus

ECC: Computer Programming  
for Engineers

Core

First-year Writing Seminar

January Term

ECC: Design & Innovation

Spring Semester

Multivariable Calculus

Foundations of Science 1

Foundations of Science 2

Colloquium

### Year 2

Fall Semester

Linear Algebra

ECC: Digital Logic

ECC: Circuits

CAD

ECC: Statics

ECC: Conservation Laws

Engineering Materials

January Term

Colloquium

Spring Semester

Differential Equations for  
Engineers

Engineering Dynamics

Thermodynamics

Fluid Mechanics

ECC: Ethics

### Year 3

Fall Semester

Solid Mechanics

Modeling of Dynamical  
Systems

Heat Transfer

EM Physics

Advanced Solid Mechanics

Thermofluids Lab.

January Term

Colloquium

Mechanical Engineering  
Elective

Mechanical Engineering  
Elective

General Elective

Core

### Year 4

Fall Semester

Capstone Design I

Mechatronics

Prob. & Stats

Core

Mechanical Engineering  
Elective

Mechatronics Lab

Numerical Methods

Spring Semester

Capstone Design II

Mechanical Engineering  
Elective

Mechanical Engineering  
Elective

Core