

# 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
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##### January Term

ECC: Design & Innovation
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##### Spring Semester

Foundations of Science 3	Foundations of Science 4	Colloquium	First-year Writing Seminar
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#### Year 2

##### Fall Semester

Linear Algebra	General Elective	General Elective	Core
Differential Equations			

##### January Term

General Elective
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##### Spring Semester

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

#### Year 3

##### Fall Semester

Thermodynamics	Probability & Statistics	Structural Components	Colloquium
Heat Transport	ECC: Numerical Methods	Machine Component Design	

## January Term

General Elective

## Spring Semester

Engineering Materials

CAD

Mechanical Engineering  
Elective

Mechanical Engineering  
Elective

General Elective

## Year 4

### Fall Semester

Capstone Seminar

Capstone Design I

Instrumentation

Mechanical Engineering  
Elective

Core

### Spring Semester

Capstone Design II

ECC: Digital logic

Discrete Mathematics

Thermal Energy Systems

Core

### Course / Credit Key

#### Course Key

GENERAL ELECTIVES

MAJOR: REQUIRED

MAJOR: ELECTIVES

CAPSTONE

CORE

#### Credit Key

1 CREDITS

2 CREDITS

4 CREDITS

5 CREDITS