

Mechanical Engineering

Weaker Math Preparation

Sample Schedule

Year 1

Fall Semester

Trigonometry and Differential Calculus	ECC: Computer Programming for Engineers	General Elective	First-year Writing Seminar
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January Term

Integral Calculus

Spring Semester

Foundations of Science 1	Foundations of Science 2	General Elective	Colloquium
Engineering Ethics			

Summer Term

Multivariable Calculus

Year 2

Fall Semester

Linear Algebra	Foundations of Science 3	Foundations of Science 4	Core
Differential Equations			

January Term

ECC: Design & Innovation

Spring Semester

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

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	Mechanical Engineering Elective	Mechanical Engineering Elective	General Elective
CAD			

Year 4

Fall Semester

Capstone Seminar	Instrumentation	Mechanical Engineering Elective	Core
Capstone Design I			

Spring Semester

Capstone Design II	ECC: Digital logic	Thermal Energy Systems	Core
	Discrete Mathematics		

Course / Credit Key				
Course Key				
GENERAL ELECTIVES	MAJOR: REQUIRED	MAJOR: ELECTIVES	CAPSTONE	CORE
Credit Key				
1 CREDITS	2 CREDITS	4 CREDITS	5 CREDITS	