Mechanical Engineering

Adequate Math Preparation

Sample Schedule

Year 1

Fall Semester

| Calculus with Applications or Calculus | ECC: Computer Programming for Engineers | General Elective | First-year Writing Seminar |

January Term

| ECC: Design & Innovation |

Spring Semester

| Multivariable Calculus | Foundations of Science 1 | Foundations of Science 2 | Colloquium |
| Engineering Ethics | | | |

Year 2

Fall Semester

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

January Term

| General Elective |

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