

# CURRICULUM MAP



MERRIMACK COLLEGE

## Mechanical Engineering, BS

### YEAR ONE

#### FALL

Intro to Engineering – GEN 1001	4 credits	Major Elective
Calculus I – MTH 1217	4 credits	Major Requirement
Intro to College Writing – ENG 1050	4 credits	General Education Requirement
Intro to Philosophy – PHL 1000 level	4 credits	General Education Requirement
First Year Experience – FYE 1000	1 credit	General Education Requirement

**Total Credits - 17**

#### SPRING

Applied Statistics – MTH 1505/MTH 2527	4 credits	Major Requirement
Calculus II – MTH 1281	4 credits	Major Requirement
Physics I + Lab – PHY 2211	4 credits	Major Requirement
General Education Elective	4 credits	General Education Requirement

**Total Credits - 16**

### YEAR TWO

#### FALL

Mechanics (Statics) – GEN 2010	4 credits	Major Requirement
Physics II & Lab – PHY 2212	4 credits	Major Requirement
Calculus III – MTH 2219	4 credits	Major Requirement
Computational Science – CSC 1610, CSC 1611, or MEN 2050	4 credits	Major Requirement

**Total Credits - 16**

#### SPRING

Mechanics of Materials & Lab – GEN 2012	4 credits	Major Requirement
Fluid Mechanics & Lab – GEN 3040	4 credits	Major Requirement
Differential Equations – MTH 2220	4 credits	Major Requirement
General Chemistry – CHM 1110 & Lab	4 credits	Major Requirement

**Total Credits - 16**

### YEAR THREE

#### FALL

Materials Science – MEN 3020	4 credits	Major Requirement
Dynamics & Vibrations – MEN 3014	4 credits	Major Requirement
Thermodynamics 1 – MEN 3030	2 credits	Major Requirement
Thermodynamics 2 – MEN 3032	2 credits	Major Requirement
Religion – RTS 1000 Level	4 credits	General Education Requirement

**Total Credits - 16**

## SPRING

Machine Design – MEN 3010	4 credits	Major Requirement
Heat and Mass Transfer – MEN 3034	4 credits	Major Requirement
General Education Elective	4 credits	General Education Requirement
General Education Elective	4 credits	General Education Requirement
<b>Total Credits - 16</b>		

## YEAR FOUR

### FALL

MEN Depth Elective	4 credits	Major Requirement
MEN Depth Elective	4 credits	Major Requirement
Technical Elective	4 credits	Major Requirement
Design Project I – MEN 4910W	2 credits	Major Requirement
General Education Elective	4 credits	General Education Requirement
<b>Total Credits - 18</b>		

### SPRING

MEN Depth Elective	4 credits	Major Requirement
MEN Depth Elective	4 credits	Major Requirement
Design Project II – MEN 4920W	2 credits	Major Requirement
General Education Elective	4 credits	General Education Requirement
<b>Total Credits - 16</b>		

Note: This is a sample curriculum map. Students may progress toward graduation using alternative pathways.