

# CURRICULUM MAP



MERRIMACK COLLEGE

## Physics, BS

### YEAR ONE

#### FALL

Physics I – PHY 2211	4 credits	Major Requirement
Calculus I – MTH 1217	4 credits	Major Requirement/ General Education Requirement
First Year Experience – FYE 1050	1 credit	General Education Requirement
Intro to College Writing – ENG 1050	4 credits	General Education Requirement
Intro to Philosophy – PHL 1000 level	4 credits	General Education Requirement
<b>Total Credits – 17</b>		

#### SPRING

Physics II – PHY 2212	4 credits	Major Requirement
Calculus II – MTH 1218	4 credits	Major Requirement/ General Education Requirement
Intro to Religion – RTS 1000	4 credits	General Education Requirement
1 of the following (4 credits):		
• Problem Solving with Java – CSC 1610	4 credits	Major Requirement
• Problem Solving with Python – CSC 1611	4 credits	Major Requirement
<b>Total Credits – 16</b>		

### YEAR TWO

#### FALL

Intro to Quantum – PHY 2241	4 credits	Major Requirement
Calculus III – MTH 2219	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>		

#### SPRING

Analytical Mechanics I – PHY 3311	4 credits	Major Requirement
Differential Equations – MTH 2220	4 credits	Major Requirement
General Education Elective	4 credits	General Education Requirement
Open Elective	4 credits	Open Elective
<b>Total Credits – 16</b>		

### YEAR THREE

#### FALL

Thermal Physics – PHY 3304	4 credits	Major Requirement
Major Elective – Additional PHY/STEM	4 credits	Major Requirement
General Education Elective	4 credits	General Education Requirement

Open Elective 4 credits Open Elective

**Total Credits – 16**

### SPRING

Electromagnetic Theory – PHY 3345	4 credits	Major Requirement
Major Elective – Additional PHY/STEM	4 credits	Major Requirement
General Education Elective	4 credits	General Education Requirement
General Education Elective	4 credits	General Education Requirement

**Total Credits – 16**

## YEAR FOUR

### FALL

Quantum Mechanics – PHY 4412	4 credits	Major Requirement
General Education Elective	4 credits	General Education Requirement
Open Elective	4 credits	Open Elective
Open Elective	4 credits	Open Elective

**Total Credits – 16**

### SPRING

Advanced Laboratory – PHY 4451	4 credits	Major Requirement/ General Education Requirement
Open Elective	4 credits	Open Elective
Open Elective	4 credits	Open Elective

**Total Credits – 12**

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