

CURRICULUM MAP



MERRIMACK COLLEGE

Applied Physics, BS

YEAR ONE

FALL

Physics I – PHY2211	4 credits	Major Requirement/FC Core (STEM) Requirement
Calculus I – MTH1217	4 credits	Corequisite/Prerequisite of Physics I
Social Science (SOSC) Course	4 credits	FC Core (SOSC) Requirement
Religious and Theological Studies (RTS) Course	4 credits	Open Elective*

Total Credits – 16

SPRING

Physics II – PHY2212	4 credits	Major Requirement
Calculus II – MTH1218	4 credits	Corequisite/Prerequisite of Physics II
First Year Seminar (FYS)	4 credits	FC Core Requirement (FYS)
Humanities (HUM) Course	4 credits	FC Core (HUM) Requirement

Total Credits – 16

YEAR TWO

FALL

Thermodynamics I – MEN3030	2 credits	Major Requirement
Thermodynamics II – MEN3032	2 credits	Major Requirement
Calculus III – MTH2219	4 credits	Major Requirement
Diversity, Power and Justice (DPJ) Course	4 credits	Diversity, Power and Justice (DPJ) Course
FC Core Elective	4 credits	FC Core Elective

Total Credits – 16

SPRING

Physics Elective – PHY3xxx/4xxx	4 credits	Major Requirement
Differential Equations – MTH2220	4 credits	Major Requirement
FC Core Elective	4 credits	FC Core Elective
FC Core Elective	4 credits	FC Core Elective

Total Credits – 16

YEAR THREE

FALL

Introduction to Quantum Physics – PHY2241	4 credits	Major Requirement
Statics I – GEN2010	4 credits	Major Requirement
FC Core Elective	4 credits	FC Core Elective
Open Elective	4 credits	Open Elective

Total Credits – 16

SPRING

Advanced Laboratory – PHY4451	4 credits	Major Requirement
Mechanics of Materials – GEN2012	4 credits	Major Requirement
Open Elective	4 credits	Open Elective
Open Elective	4 credits	Open Elective

Total Credits – 16

YEAR FOUR

FALL

Dynamics and Vibration – MEN3014	4 credits	Major Requirement
Engineering Elective – MEN3xxx/MEN4xxx	4 credits	Major Requirement
Open Elective	4 credits	Open Elective
Open Elective*	4 credits	Open Elective*

Total Credits – 16

SPRING

Open Elective	4 credits	Open Elective
Open Elective*	4 credits	Open Elective*
Open Elective*	4 credits	Open Elective*

Total Credits – 12

*Specific graduate school/career goals should be considered when choosing open electives. General Chemistry I – CHM1110 and Problem Solving with Python – CSC1611 are strongly encouraged open electives

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