

CURRICULUM MAP



MERRIMACK COLLEGE

Electromechanical Engineering, BS (Pre-Calculus Start)

YEAR ONE

FALL

Pre-Calculus - MTH 1016	4 credits	Major Requirement
First Year Seminar - FYS 1947	4 credits	FC Core Requirement (FYS)
Introduction to Engineering - GEN 1001	4 credits	Major Requirement
FC Core Course	4 credits	FC Core Requirement (SOSC)
Total Credits - 16		

SPRING

Calculus I - MTH 1217	4 credits	Major Requirement. FC Core Requirement (STEM)
Physics I with Lab - PHY 2211	4 credits	Major Requirement
FC Core Course	4 credits	FC Core Requirement (RTS)
Circuit Analysis with Lab - EME 2150	4 credits	Major Requirement
Total Credits - 16		

YEAR TWO

FALL

Statics & Recitation - GEN 2010/GEN 2010R	4 credits	Major Requirement
Calculus II - MTH 1218	4 credits	Major Requirement
Physics II with Lab - PHY 2212	4 credits	Major Requirement
Coding (MEN 2050, CSC 1611, or EME 2040)	4 credits	Major Requirement

Total Credits - 16

SPRING

Thermofluid Systems - EME 3036	4 credits	Major Requirement
Calculus III - MTH 2219	4 credits	Major Requirement
Digital Fundamentals and Lab - EEN 1200	4 credits	Major Requirement

General Chemistry with Lab - CHM 1100	4 credits	Major Requirement
Total Credits - 16		

YEAR THREE

FALL

Applied Statistics and Probability for Engineers - MTH1505	4 credits	Major Requirement
Dynamics and Vibrations - MEN 3014	4 credits	Major Requirement
Discrete Time Signals and Systems - EEN 4145	4 credits	Major Requirement
MTH 2220 Differential Equations	4 credits	Major Requirement
Total Credits - 16		

SPRING

Mechatronics - MEN 4012	4 credits	Major Requirement
Electrical Machines & Power Systems - EME 3060	4 credits	Major Requirement
FC Core Course	4 credits	FC Core Requirement (HUM)
FC Core Course	4 credits	FC Core Requirement (CUS)
Total Credits - 16		

YEAR FOUR

FALL

Engineering Capstone Design I - EME 4960	2 credits	Major Requirement
Senior Seminar	1 credit	Major Requirement
Feedback Control Systems - MEN 4130	4 credits	Major Requirement
Path Course 1	4 credits	Major Requirement
FC Core Minor, Certificate, or Open Elective	4 credits	Elective Requirement
Total Credits - 15		

SPRING

Engineering Capstone Design II - EME 4970	2 credits	Major Requirement
Path Course 2	4 credits	Major Requirement
Path Course 3	4 credits	Major Requirement
FC Core Minor, Certificate, or Open Elective	4 credits	Elective Requirement
Total Credits - 14		

Notes: This is a sample curriculum map. Students may progress toward graduation using alternative pathways. In addition, 'FC Core Requirement' signifies that the course is required as part of the Foundations and Connections Core - the College's general education program. Please be aware that all students must take six FC Core Requirement courses (FYS, CUS, HUM, RTS, SOSC, and STEM) and earn an FC Core Minor or Certificate to satisfy the College's general education requirement.

Students must earn a C- or higher in a prerequisite for another course to enroll in the next course. For example, you must earn a C- or higher in Calculus I in order to enroll in Calculus II.

All students must accumulate 100 experiential education points through various activities such as internships, competitions, study abroad, co-op, and so on. Additionally, all seniors must take the FE exam and complete the senior exit survey.