

CURRICULUM MAP



MERRIMACK COLLEGE

Electrical Engineering, BS (Pre-Calculus Start)

YEAR ONE

FALL

Pre-Calculus - MTH 1016	4 credits	Major Requirement
General Chemistry with Lab - CHM 1110	4 credits	Major Requirement, FC Core (STEM)
Introduction to Engineering - GEN 1001	4 credits	Major Requirement
First Year Seminar - FYS 1947	4 credits	FC Core Requirement (FYS)

Total Credits - 16

SPRING

Digital Fundamentals with Lab - EEN 1200	4 credits	Major Requirement
Calculus I - MTH 1217	4 credits	Major Requirement
Problem Solving with Python - CSC 1611	4 credits	Major Requirement
FC Core Course	4 credits	FC Core Requirement (CUS)

Total Credits - 16

YEAR TWO

FALL

Circuit Theory I with Lab - EEN 2130	4 credits	Major Requirement
Physics I with Lab - PHY 2211	4 credits	Major Requirement
Calculus II - MTH 1218	4 credits	Major Requirement
FC Core Course	4 credits	FC Core Requirement (RTS)

Total Credits - 16

SPRING

Calculus III - MTH 2219	4 credits	Major Requirement
Circuit Theory II with Lab - EEN 2140	4 credits	Major Requirement
Embedded Controller Design with Lab - EEN 2270	4 credits	Major Requirement
Physics II with Lab - PHY 2212	4 credits	Major Requirement

Total Credits - 16

YEAR THREE

FALL

Differential Equations - MTH 2220	4 credits	Major Requirement
Electronics I - EEN 3210	4 credits	Major Requirement
Energy, Generation, Conservation and Technology - EEN 3270	4 credits	Major Requirement
Probability and Statistics I - MTH 2527 or FC Core Course	4 credits	Major Requirement or FC Core Requirement (HUM)

Total Credits - 16

SPRING

Electronics II - EEN 3220	4 credits	Major Requirement
Engineering Electromagnetics - EEN 3430	4 credits	Major Requirement
Major Elective 1	4 credits	Major Requirement
FC Core Course or MTH 1505 Applied Statistics and Probability for Engineers	4 credits	FC Core Requirement (HUM) or Major Requirement

Total Credits - 16

YEAR FOUR

FALL

Discrete Time Signals and Systems - EEN 4145	4 credits	Major Requirement
Design Project I - EEN 4960	2 credits	Major Requirement
Senior Seminar	1 credit	Major Requirement
Major Elective 2	4 credits	Major Requirement
Open Elective	4 credits	Elective Requirement

Total Credits - 14

SPRING

Feedback Circuits - EEN 4270	4 credits	Major Requirement
Design Project II - EEN 4970	2 credits	Major Requirement
VLSI Design - EEN 4750	4 credits	Major Requirement
FC Core Course	4 credits	FC Core Requirement (SOSC)

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.