

# CURRICULUM MAP



MERRIMACK COLLEGE

## Computer Engineering, BS (Algebra Start)

### YEAR ONE

#### FALL

Concepts in Algebra - MTH 1000	4 credits	Major Prerequisite
First Year Seminar - FYS 1947	4 credits	FC Core Requirement (FYS)
Introduction to Engineering - GEN 1001	4 credits	Major Requirement
FC Core Class (RTS, DPJ, HUM, or SOSC)	4 credits	FC Core Requirement
<b>Total Credits - 16</b>		

#### SPRING

Pre-Calculus - MTH 1016	4 credits	Major Prerequisite
General Chemistry with lab - CHM 1110	4 credits	Major Requirement
Digital Fundamentals with lab - EEN1200	4 credits	Major Requirement
Problem Solving with Java - CSC 1610	4 credits	Major Requirement
<b>Total Credits - 16</b>		

#### SUMMER

Calculus I - MTH 1217	4 credits	Major Requirement, FC Core Requirement (STEM), FC Core Certificate Requirement
<b>Total Credits - 4</b>		

### YEAR TWO

#### FALL

Calculus II - MTH 1218	4 credits	Major Requirement
Physics I with lab - PHY 2211	4 credits	Major Requirement
Circuit Theory I with lab - EEN 2130	4 credits	Major Requirement
Data Structures - CSC 2820	4 credits	Major Requirement
<b>Total Credits - 16</b>		

#### SPRING

Applied Statistics and Probability - MTH 1505	4 credits	Major Requirement, FC Core Certificate Requirement
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Circuit Theory II with lab - EEN 2140	4 credits	Major Requirement
Discrete Mathematics - MTH 1314	4 credits	Major Requirement, FC Core Certificate Requirement
Physics II with Lab - PHY 2212	4 credits	Major Requirement
<b>Total Credits - 16</b>		

## YEAR THREE

### FALL

Analysis of Algorithms - CSC 2710	4 credits	Major Requirement
Electronics I with lab - EEN 3210	4 credits	Major Requirement
Networking - CSC 3935	4 credits	Major Requirement
Linear Algebra - MTH 3335	4 credits	Major Requirement
<b>Total Credits - 16</b>		

### SPRING

Embedded Controller Design - EEN 2270	4 credits	Major Requirement
FC Core Class (RTS, DPJ, HUM, or SOSC)	4 credits	FC Core Requirement
FC Core Class (RTS, DPJ, HUM, or SOSC)	4 credits	FC Core Requirement
<b>Total Credits - 12</b>		

## YEAR FOUR

### FALL

Discrete-Time Signals & Systems - EEN 4145	4 credits	Major Requirement
Senior Elective #1 - EEN/CSC	4 credits	Major Requirement
Senior Seminar	1 credit	Major Requirement
Design Project I - EEN 4960	2 credits	Major Requirement
Operating Systems - CSC 3320	4 credits	Major Requirement
<b>Total Credits - 15</b>		

### SPRING

Design Project II - EEN 4970	2 credits	Major Requirement
Senior Elective #2 - EEN/CSC	4 credits	Major Requirement
Open CPE Elective	4 credits	Major Requirement
FC Core Class (RTS, DPJ, HUM, or SOSC)	4 credits	FC Core Requirement
<b>Total Credits - 14</b>		

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, DPJ, 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.