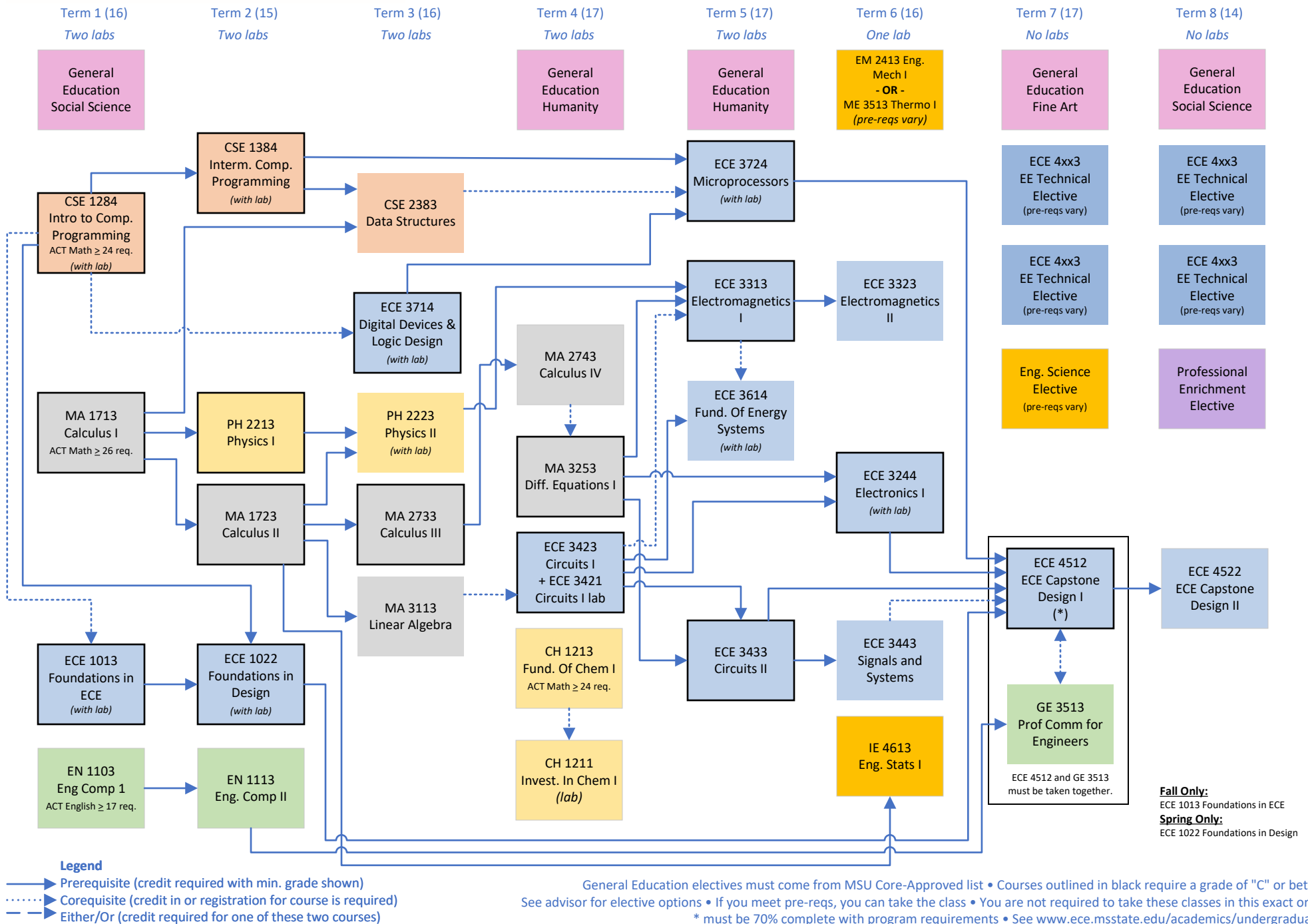




Electrical Engineering (EE) 2025 Curriculum Guide



Electrical Engineering (EE) Curriculum

First Semester

Course	Hours
EN 1103 English Composition I	3
MA 1713 Calculus I	3
CSE 1284 Intro to Computer Programming with lab	4
ECE 1013 Foundations in ECE with lab*	3
General Education Social/Behavioral Science	3
Total Credit Hours	16
Total Labs	2

Third Semester

Course	Hours
MA 2733 Calculus III	3
MA 3113 Intro to Linear Algebra	3
CSE 2383 Data Structures	3
ECE 3714 Digital Devices and Logic Design with lab	4
PH 2223 Physics II with lab	3
Total Credit Hours	16
Total Labs	2

Fifth Semester

Course	Hours
ECE 3433 Circuits II	3
ECE 3724 Microprocessors with lab	4
ECE 3313 Electromagnetics I	3
ECE 3614 Fundamentals of Energy Systems with lab	4
General Education Humanity	3
Total Credit Hours	17
Total Labs	2

Seventh Semester

Course	Hours
ECE 4512 ECE Capstone Design I with lab	2
GE 3513 Professional Communication for Engineers	3
ECE 4xx3 EE Technical Elective	3
ECE 4xx3 EE Technical Elective	3
Engineering Science Elective	3
General Education Creative Discovery/Fine Art	3
Total Credit Hours	17
Total Labs	1

Second Semester

Course	Hours
EN 1113 English Composition II	3
MA 1723 Calculus II	3
CSE 1384 Intermediate Computer Programming with lab	4
ECE 1022 Foundations in Design with lab^	2
PH 2213 Physics I	3
Total Credit Hours	15
Total Labs	2

Fourth Semester

Course	Hours
MA 2743 Calculus IV	3
MA 3253 Differential Equations	3
CH 1213 Fundamentals of Chemistry	3
CH 1211 Investigations in Chemistry	1
ECE 3423 Circuits I	3
ECE 3421 Circuits I lab	1
General Education Humanity	3
Total Credit Hours	17
Total Labs	2

Sixth Semester

Course	Hours
ECE 3443 Signals and Systems	3
ECE 3244 Electronics I with lab	4
ECE 3323 Electromagnetics II	3
EM 2413/ME 3513 Engineering Mechanics I or Thermodynamics I	3
IE 4613 Engineering Statistics	3
Total Credit Hours	16
Total Labs	1

Eighth Semester

Course	Hours
ECE 4522 ECE Capstone Design II with lab	2
ECE 4xx3 EE Technical Elective	3
ECE 4xx3 EE Technical Elective	3
Professional Enrichment Elective	3
General Education Social/Behavioral Science	3
Total Credit Hours	14
Total Labs	1

First Year:
31 Credits, 4 labs

Second Year:
33 Credits, 4 labs

Third Year:
33 Credits, 3 labs

Fourth Year:
31 Credits, 2 labs

128 Total CPE Credit Hours

All prerequisites and minimum grades must be met for courses

*Fall only ^Spring only

2025 Curriculum