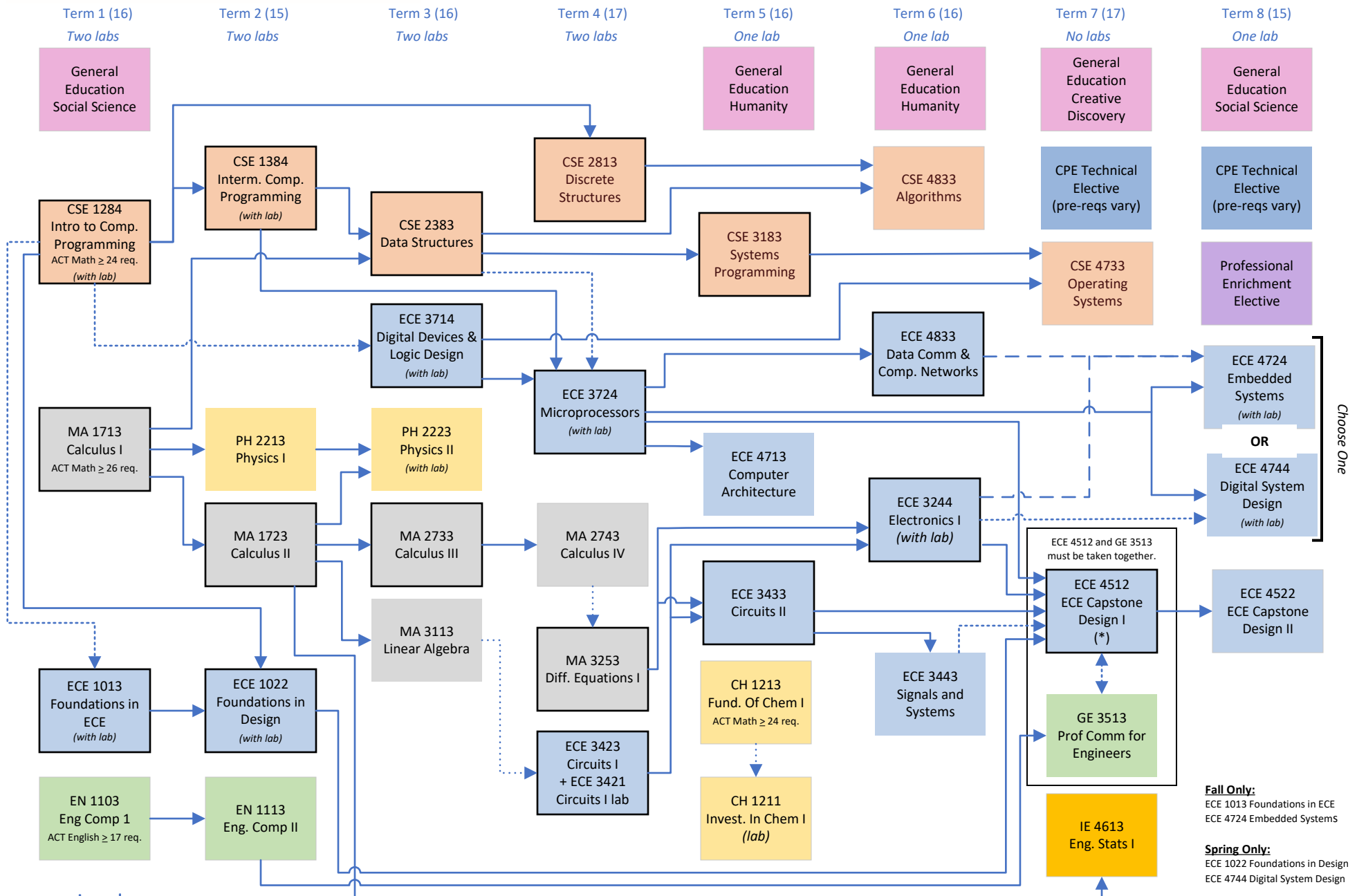




# Computer Engineering (CPE) 2025 Curriculum Guide



## Computer Engineering (CPE) 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
<b>Total Credit Hours</b>	<b>16</b>
<b>Total Labs</b>	<b>2</b>

### 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
<b>Total Credit Hours</b>	<b>16</b>
<b>Total Labs</b>	<b>2</b>

### Fifth Semester

Course	Hours
CH 1213 Fundamentals of Chemistry	3
CH 1211 Investigations in Chemistry	1
CSE 3183 Systems Programming	3
ECE 4713 Computer Architecture	3
ECE 3433 Circuits II	3
General Education Humanity	3
<b>Total Credit Hours</b>	<b>16</b>
<b>Total Labs</b>	<b>1</b>

### Seventh Semester

Course	Hours
IE 4613 Engineering Statistics	3
CSE 4733 Operating Systems	3
ECE 4512 ECE Capstone Design I with lab	2
GE 3513 Professional Communication for Engineers	3
CPE Technical Elective	3
General Education Creative Discovery/Fine Art	3
<b>Total Credit Hours</b>	<b>17</b>
<b>Total Labs</b>	<b>1</b>

### 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
<b>Total Credit Hours</b>	<b>15</b>
<b>Total Labs</b>	<b>2</b>

### Fourth Semester

Course	Hours
MA 2743 Calculus IV	3
MA 3253 Differential Equations	3
CSE 2813 Discrete Structures	3
ECE 3724 Microprocessors with lab	4
ECE 3423 Circuits I	3
ECE 3421 Circuits I lab	1
<b>Total Credit Hours</b>	<b>17</b>
<b>Total Labs</b>	<b>2</b>

### Sixth Semester

Course	Hours
ECE 3443 Signals and Systems	3
ECE 4833 Data Comm Networks	3
CSE 4833 Algorithms	3
ECE 3244 Electronics I with lab	4
General Education Humanity	3
<b>Total Credit Hours</b>	<b>16</b>
<b>Total Labs</b>	<b>1</b>

### Eighth Semester

Course	Hours
ECE 4724/4744 Embedded Systems* or Digital System Design^ w/ lab	4
CPE Technical Elective	3
ECE 4522 ECE Capstone Design II with lab	2
Professional Enrichment Elective	3
General Education Social/Behavioral Science	3
<b>Total Credit Hours</b>	<b>15</b>
<b>Total Labs</b>	<b>2</b>

First Year:  
31 Credits, 4 labs

Second Year:  
33 Credits, 4 labs

Third Year:  
32 Credits, 2 labs

Fourth Year:  
32 Credits, 3 labs

**128 Total CPE Credit Hours**

All prerequisites and minimum grades must be met for courses  
\*Fall only ^Spring only

2025 Curriculum