



# Computer Engineering (CPE) Curriculum

First Semester			Second Semester		
Course		Hours	Course		Hours
EN 1103	English Composition I	3	EN 1113	English Composition II	3
MA 1713	Calculus I	3	MA 1723	Calculus II	3
CSE 1284	Intro to Computer Programming with lab	4	CSE 1384	Intermediate Computer Programming with lab	4
ECE 1013	Foundations in ECE with lab*	3	ECE 1022	Foundations in Design with lab^	2
	General Education Social/Behavioral Science	3	PH 2213	Physics I	3
Total Credit Hours		16	Total Credit Hours		15
Total Labs		2	Total Labs		2
Third Semester			Fourth Semester		
Course		Hours	Course		Hours
MA 2733	Calculus III	3	MA 2743	Calculus IV	3
MA 3113	Intro to Linear Algebra	3	MA 3253	Differential Equations	3
CSE 2383	Data Structures	3	CSE 2813	Discrete Structures	3
ECE 3714	Digital Devices and Logic Design with lab	4	ECE 3724	Microprocessors with lab	4
PH 2223	Physics II with lab	3	ECE 3423	Circuits I	3
			ECE 3421	Circuits I lab	1
Total Credit Hours		16	Total Credit Hours		17
Total Labs		2	Total Labs		2
Fifth Semester			Sixth Semester		
Course		Hours	Course		Hours
CH 1213	Fundamentals of Chemistry	3	ECE 3443	Signals and Systems	3
CH 1211	Investigations in Chemistry	1	ECE 4833	Data Comm Networks	3
CSE 3183	Systems Programming	3	CSE 4833	Algorithms	3
ECE 4713	Computer Architecture	3	ECE 3244	Electronics I with lab	4
ECE 3433	Circuits II	3		General Education Humanity	3
	General Education Humanity	3			
Total Credit Hours		16	Total Credit Hours		16
Total Labs		1	Total Labs		1
Seventh Semester			Eighth Semester		
Course		Hours	Course		Hours
IE 4613	Engineering Statistics	3	ECE 4724/4744	Embedded Systems* or Digital System Design^ w/ lab	4
CSE 4733	Operating Systems	3		CPE Technical Elective	3
ECE 4512	ECE Capstone Design I with lab	2	ECE 4522	ECE Capstone Design II with lab	2
GE 3513	Professional Communication for Engineers	3		Professional Enrichment Elective	3
	CPE Technical Elective	3		General Education Social/Behavioral Science	3
	General Education Creative Discovery/Fine Art	3			
Total Credit Hours		17	Total Credit Hours		15
Total Labs		1	Total Labs		2

All prerequisites and minimum grades must be met for courses

\*Fall only ^Spring only

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

2025 Curriculum