



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

First Year:

31 Credits, 4 labs

## 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>

## 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
<b>Total Credit Hours</b>		<b>17</b>
<b>Total Labs</b>		<b>2</b>

Second Year:

33 Credits, 4 labs

## 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
<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 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
<b>Total Credit Hours</b>		<b>16</b>
<b>Total Labs</b>		<b>1</b>

Third Year:

33 Credits, 3 labs

## 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
<b>Total Credit Hours</b>		<b>17</b>
<b>Total Labs</b>		<b>1</b>

## 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
<b>Total Credit Hours</b>		<b>14</b>
<b>Total Labs</b>		<b>1</b>

Fourth Year:

31 Credits, 2 labs

All prerequisites and minimum grades must be met for courses

\*Fall only ^Spring only

2025 Curriculum

128 Total CPE Credit Hours