

## BSEE Degree Requirements (123 units)

### A sample 4-Year curriculum plan

Freshman Year			
Semester 1	Units	Semester 2	Units
MATH 30 or 30X – Calculus 1	3	MATH 31 or 31X – Calculus 2	4
ENGL 1A - First Year Writing	3	PHYS 50 - General Physics/Mechanics	4
ENGR 10 – Introduction to Engineering	3	ENGL 1B – Argument and Analysis	3
EE 30 – Introduction to Programming Micro-Controllers for EE	3	CHEM 1A – General Chemistry	5
COMM 20 - Public Speaking	3		
<b>Semester 1 Total</b>	<b>15</b>	<b>Semester 2 Total</b>	<b>16</b>
Sophomore Year			
Semester 3	Units	Semester 4	Units
MATH 32 or 32X – Calculus 3	3	MATH 33A - Ordinary Differential Equations for SCI & ENGR, OR MATH 33 LA – Diff. Eq. & Linear Algebra	3
PHYS 51 - General Physics/Electricity and Magnetism	4	PHYS 52 - General Physics/Waves, Light, Heat	4
AMS 1A - American Cultures to 1877	6	AMS 1B - American Cultures 1877 - Present	6
GE Area F	3	EE 97 - Introductory EE Laboratory	1
		EE 98 - Introduction to Circuit Analysis	3
<b>Semester 3 Total</b>	<b>16</b>	<b>Semester 4 Total</b>	<b>17</b>
Junior Year			
Semester 5	Units	Semester 6	Units
EE 110 - Circuits and Systems	3	EE 112 - Introduction to Signal Processing	3
EE 110L - Continuous and Discrete Time Systems Laboratory	1	EE 120 - Microprocessor Based System Design	4
EE 118 - Digital Logic Circuit Design	4	EE 122 - Electronic Design I	4
EE 140 - Principles of Electromag. Fields	3	EE 128 - Physical Electronics	3
MATE 153 - Electronic, Optical and Magnetic Properties of Materials	3	ENGR 100W - Engineering Reports	3
<b>Semester 5 Total</b>	<b>14</b>	<b>Semester 6 Total</b>	<b>17</b>
Senior Year			
Semester 7	Units	Semester 8	Units
EE 102 – Probability & Statistics in Electrical	3	Upper-Division <b>Technical Elective #2</b>	3
EE 124 - Electronic Design II	4	Upper-Division <b>Technical Elective #3</b>	3
EE 132 – Theory of Automatic Controls, OR EE 160 - Principles of Comm. Systems	3	Upper-Division <b>Technical Elective #4</b>	3
Upper-Division <b>Technical Elective #1</b>	3	EE 198B - Senior Design Project II	3
EE 198A - Senior Design Project I	1	ENGR 195B - Global and Social Issues in Engineering	1
ENGR 195A - Global and Social Issues in Engineering	1		
<b>Semester 7 Total</b>	<b>15</b>	<b>Semester 8 Total</b>	<b>13</b>

#### Want to take classes in summers:

1. Check for summer class availability
2. Move a class from a semester (especially Spring semester) to the following summer session