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		
Semester 1 Total	**15**	**Semester 2 Total**	**16**
Sophomore Year			
Semester 3	**Units**	**Semester 4**	**Units**
MATH 32 or **32X** – Calculus 3	3	**MATH 33LA** – 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
Semester 3 Total	**16**	**Semester 4 Total**	**17**
Junior Year			
Semester 5	**Units**	**Semester 6**	**Units**
EE 110 - Circuits and Systems	3	**EE 120** - Microprocessor Based System Design	4
EE 110L - Continuous and Discrete Time Systems Laboratory	1	**EE 122** - Electronic Design I	4
EE 112 - Introduction to Signal Processing	3	**EE 128** - Physical Electronics	3
EE 118 - Digital Logic Circuit Design	4	**EE 140** - Principles of Electromag. Fields	3
MATE 153 - Electronic, Optical and Magnetic Properties of Materials	3	**ENGR 100W** - Engineering Reports	3
Semester 5 Total	**14**	**Semester 6 Total**	**17**
Senior Year			
Semester 7	**Units**	**Semester 8**	**Units**
EE 102 – Probability & Statistics in Electrical	3	Upper-Division **Technical Elective** #2	3
EE 124 - Electronic Design II	4	Upper-Division **Technical Elective** #3	3
EE 132 – Theory of Automatic Controls, **OR** **EE 160** - Principles of Comm. Systems	3	Upper-Division **Technical Elective** #4	3
Upper-Division **Technical Elective** #1	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		
Semester 7 Total	**15**	**Semester 8 Total**	**13**

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