

ELECTRICAL ENGINEERING 2019-20

Units

Units

PREPARATION FOR THE MAJOR	80
CHEM 1A, 1AL or 2A, 2AC	5
CMPS 16	4
ECE 5	4
ECE 10A, 10AL, 10B, 10BL, 10C, 10CL	15
ECE 15A	4
ECE 3	4
MATH 2A-B or 3A-B, 4A-B, 6A-B	24
PHYS 1, 2, 3, 3L, 4, 4L, 5, 5L	20

UNIVERSITY REQUIREMENTS
American History and Institutions – (one 4-unit course, may be counted as G.E. if selected from approved list)
UC Entry Level Requirement: English Composition <i>Must be fulfilled within three quarters of matriculation</i>
Satisfied by: _____

UPPER DIVISION MAJOR	68
ECE 130A-B	8
ECE 132	4
ECE 134	4
ECE 137A-B	8
ECE 139	4
ECE 152A	5
ENGR 101	3

GENERAL EDUCATION

General Subject Areas

Area A: English Reading & Comprehension – (2 courses required)

A-1: _____ A-2: _____

Area D: Social Science
(2 courses minimum)

Area E: Culture and Thought
(2 courses minimum)

Area F: The Arts
(1 course minimum)

Area G: Literature
(1 course minimum)

Special Subject Areas

Ethnicity (1 course): _____

European Traditions
or World Cultures (1 course): _____

Writing (4 courses required):

Departmental electives selected from the following list: 32

*Prior approval of the student's departmental electives must be obtained from the student's faculty adviser.
Must include at least 2 sequences, one of which must be an approved EE Senior Capstone Design/Project course sequence.*

Approved Departmental Electives:

ECE 120A-B	ECE 147A-B-C	ECE 179D, P
ECE 122A-B	ECE 148	ECE 181
ECE 123	ECE 150	ECE 183
ECE 125	ECE 153A-B	ECE 188A-B-C
ECE 130C	ECE 154A-B	ECE 192 or 196 (4 units combined max)
ECE 135	ECE 155A-B	ECE 194AA-ZZ(excluding ECE 194R)
ECE 141A-B	ECE 156A-B	TMP 120, 122 (1 course max)
ECE 142	ECE 158	MATRL 100A, C
ECE 144	ECE 160	MATRL 100B or MATRL 101
ECE 145A-B-C	ECE 162A-B-C	MATRL 162A-B
ECE 146A-B	ECE 178	

Departmental Electives taken:

Courses that can apply toward the major, inside or outside of the Department of Electrical and Computer Engineering, cannot be taken for the passed/not passed grading option. They must be taken for **letter** grades.

NON-MAJOR ELECTIVES 42

General Education and Free Electives taken:

TOTAL UNITS REQUIRED FOR GRADUATION 189

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FRESHMAN YEAR

FALL	units	WINTER	units	SPRING	units
CHEM 1A or 2A	3	ECE 5	4	CMPSC 16	4
CHEM 1AL or 2AC	2	MATH 3B	4	MATH 4A	4
ECE 3	4	PHYS 1	4	PHYS 2	4
MATH 3A	4	WRIT 2E or 50E	4	WRIT 50E or G.E.	4
WRIT 1E or 2E	4				
TOTAL	17		16		16

SOPHOMORE YEAR

FALL	units	WINTER	units	SPRING	units
ECE 10A	3	ECE 10B	3	ECE 10C	3
ECE 10AL	2	ECE 10BL	2	ECE 10CL	2
MATH 4B	4	ECE 15A	4	MATH 6B	4
PHYS 3	3	MATH 6A	4	PHYS 5	3
PHYS 3L	1	PHYS 4	3	PHYS 5L	1
		PHYS 4L	1		
TOTAL	13		17		13

JUNIOR YEAR

FALL	units	WINTER	units	SPRING	units
ECE 130A	4	ECE 130B	4	ECE 137B	4
ECE 132	4	ECE 137A	4	ECE 139 ¹	4
ECE 134	4	ECE Elective	4	ECE 152A ²	5
G.E. or Free Elective	4	G.E. or Free Elective	4	G.E. or Free Elective	4
TOTAL	16		16		17

SENIOR YEAR

FALL	units	WINTER	units	SPRING	units
ECE Electives ⁴	12	ECE Electives	8	ECE Electives	8
G.E. or Free Elective	4	G.E. or Free Electives	8	ENGR 101 ³	3
				G.E. or Free Electives	6
TOTAL	16		16		17

¹ ECE 139 may also be taken in the spring quarter of the sophomore year.

² ECE 152A may also be taken in the spring quarter of the sophomore year.

³ ENGR 101 may be taken any quarter of senior year.

⁴ ECE Electives must include at least two sequences, one of which must be an approved EE senior capstone design project sequence.