

ELECTRICAL ENGINEERING 2021-22

	Units
PREPARATION FOR THE MAJOR	80
CHEM 1A, 1AL or 2A, 2AC.	5
CMPSC 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

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
ECE 188 A-B-C	9
Departmental electives selected from the following list:	23

Approval of the student's departmental electives must be obtained from the student's faculty adviser. Must include at least 1 sequence, see ECE Department student office for list of approved sequences. Minimum six courses.

Approved Departmental Electives:

ECE 120A-B	ECE 148	ECE 181
ECE 122A-B	ECE 149	ECE 183
ECE 123	ECE 150	ECE 192 or 196 (4 units
ECE 125	ECE 153A-B	combined max)
ECE 130C	ECE 154A-B	ECE 194 AA-ZZ
ECE 135	ECE 157A-B	(excluding ECE 194R)
ECE 141A-B	ECE 158	MATRL 100A, C
ECE 142	ECE 160	MATRL 100B or MATRL
ECE 144	ECE 162A-B-C	101
ECE 145A-B-C	ECE 178	MATRL 162A-B
ECE 146A-B	ECE 179D, P	TMP 120, 122 (1 course
ECE 147A-B-C	ECE 180	max)

Departmental Electives taken:

To satisfy major requirements, courses taken inside or outside the Department of Electrical and Computer Engineering, must be taken for a letter grade.

UNIVERSITY REQUIREMENTS

UC Entry Level Writing Requirement: English Composition
Must be fulfilled within three quarters of matriculation

American History and Institutions – (one 4-unit course, may be counted as G.E. if selected from approved list)

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):

NON-MAJOR ELECTIVES

Free Electives taken:

TOTAL UNITS REQUIRED FOR GRADUATION189

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This grid is intended to serve as a guide and should be adjusted for individual circumstances in consultation with academic advisors.
Course availability subject to change. Changes will be announced by the department.

FRESHMAN YEAR

FALL	units	WINTER	units	SPRING	units
CHEM 1A or 2A	3	MATH 3B	4	MATH 4A	4
CHEM 1AL or 2AC	2	PHYS 1	4	PHYS 2	4
ECE 3	4	ECE 5	4	WRIT 50E or G.E.	4
MATH 3A	4	WRIT 2E or 50E	4		
WRIT 1E or 2E	4				
TOTAL	17		16		12

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
CMPSC 16	4	PHYS 4L	1		
TOTAL	17		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.	4	G.E.	4	G.E.	4
TOTAL	16		16		17

SENIOR YEAR

FALL	units	WINTER	units	SPRING	units
ECE 188A	3	ECE 188B	3	ECE 188C	3
ECE Electives	8	ECE Electives	8	ECE Electives	8
G.E.	4	G.E.	4	Free Elective ⁴	4
		ENGR 101 ³	3		
TOTAL	15		18		15

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 This course may not be required. Students must complete at least 189 units to graduate.