COMPUTER ENGINEERING 2020-21

PREPARATION FOR THE MAJOR	Units 75
CHEM 1A, 1AL or 2A, 2AC	5
CMPSC 16	4
CMPSC 24	4
CMPSC 32	4
CMPSC 40	5
ECE 1A- 1B	2
ECE 10A, 10AL, 10B, 10BL, 10C, 10CL	15
ECE 15A.	4
MATH 3A-B, 4A-B	16
PHYS 1, 2, 3, 3L, 4, 4L.	16

UPPER DIVISION MAJOR	68
CMPSC 130A	4
ECE 139 or PSTAT 120A	4
ECE 152A.	5
ECE 154A	4
ENGR 101.	3
CMPSC 189 A-B* / ECE 189+ A-B-C.	8-12

* Prerequisite to CMPSC 189A is CMPSC 156
+ Prerequisite to ECE 189A is ECE 153B

Computer Engineering electives selected
 from the following list: 36-40

Prior approval of the student's departmental electives must be obtained from the student's faculty adviser.

Must include at least 2 sequences. See ECE Department student office for list of approved sequences.

CMPSC 130B	ECE 130A-B-C
CMPSC138	ECE 147A-B
CMPSC 153A/ECE153A	ECE 149
CMPSC 160	ECE 150
CMPSC 162	ECE 153B
CMPSC 165A-B	ECE 154B
CMPSC 170	ECE 157A-B
CMPSC 171	ECE 160
CMPSC 174A	ECE 178
CMPSC 176A-B	ECE 179D, 179P
CMPSC 176C	ECE 194AA-194ZZ (except 194R)
CMPSC 177	
CMPSC 178	
CMPSC 181/ECE 181	
ECE 122A-B	
ECE 123	

Computer Engineering electives taken:

_____ | _____
_____ | _____
_____ | _____
_____ | _____

MATH, SCIENCE, ENGR. ELECTIVE	4

(See ECE Dept. student office for the approved list)
Elective 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 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   Area G: Literature
(1 course minimum)   (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 GRADUATION 191

COMPUTER ENGINEERING 2020-21

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	ECE 1A	1	ECE 1B	1
CHEM 1AL or 2AC	2	CMPSC 16	4	MATH 4A	4
MATH 3A	4	MATH 3B	4	PHYS 2	4
G.E. Elective or CMPSC 8[1]	4	PHYS 1	4	WRIT 50E or G.E. Elective	4
WRIT 1E or 2E	4	WRIT 2E or 50E	4	MATH, SCIENCE, ENGR. ELECTIVE	4
TOTAL	**17**		**17**		**17**

SOPHOMORE YEAR

FALL	units	WINTER	units	SPRING	units
CMPSC 24	4	CMPSC 40	5	CMPSC 32	4
ECE 10A	3	ECE 10B	3	ECE 10C	3
ECE 10AL	2	ECE10BL	2	ECE 10CL	2
MATH 4B	4	ECE 15A	4	ECE 152A	5
PHYS 3	3	PHYS 4	3	ECE 139 or PSTAT 120A[2]	4
PHYS 3L	1	PHYS 4L	1		
TOTAL	**17**		**18**		**18**

JUNIOR YEAR

FALL	units	WINTER	units	SPRING	units
ECE 154A	4	CMPSC 130A	4	CMPEN Electives	8
CMPEN Electives	8	CMPEN Elective*	4	G.E.	4
G.E.	4	G.E.	8		
TOTAL	**16**		**16**		**12**

SENIOR YEAR

FALL	units	WINTER	units	SPRING	units
ECE 189A*/ CMPSC[+] 189A	4	ECE 189B/ CMPSC 189B	4	ECE 189C or CMPEN Elect.	4
CMPEN Electives	8	ENGR 101[3]	3	CMPEN Elective	4
G.E.	4	G.E.	4	G.E.	4
		CMPEN Elective	4		
TOTAL	**16**		**15**		**12**

[1] CMPSC 8 may be used to satisfy the Math, Science, Engineering Elective requirement.

[2] PSTAT 120A is offered each quarter. ECE 139 is offered only in spring quarter, and is better suited for future upper division electives for the Computer Engineering major.

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

*ECE 189A-B-C is taken fall, winter, and spring quarters. Prerequisite to ECE 189A is ECE 153B, taken winter of junior year.

+CMPSC 189A-B is taken fall and winter quarters. Prerequisite to CMPSC 189A is CMPSC 156.