COMPUTER ENGINEERING 2024-25

Units

PREPARATION FOR THE MAJOR

CMPSC 16	4
CMPSC 24	4
CMPSC 32	4
CMPSC 40	5
ECE 1A-1B.	2
ECE 5.	4
ECE 10A, 10AL, 10B, 10BL, 10C, 10CL.	15
ECE 15A	4
MATH 2A-B or 3A-B, 4A-B, 6A	20
PHYS 7A, 7B, 7C, 7D, 7L	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 (offered twice per year)

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	CMPSC 181/	ECE 178
CMPSC 138	ECE 181	ECE 179D,
CMPSC 153A/	ECE 122A-B	179P
ECE 153A	ECE 123	ECE 180
CMPSC 156	ECE 130A-B-C	ECE 184
CMPSC 160	ECE 133	ECE 194AA-
CMPSC 162	ECE 147A-B	194ZZ
CMPSC 165A-B	ECE 149	(except 194R)
CMPSC 170	ECE 150	ECE 192 or
CMPSC 171	ECE 152B	196/CMPSC
CMPSC 174A	ECE 153B	192 or 196
CMPSC 176A-B-C	ECE 154B	(4 units
CMPSC 177	ECE 157A-B-C	combined
CMPSC 178	ECE 160	max)

Computer Engineering 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   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 2024-25

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
ECE 3 or CMPSC 8	4	CMPSC 16	4	CMPSC 24	4
ECE 5[1]	4	ECE 1A	1	ECE 1B	1
MATH 3A	4	MATH 3B	4	MATH 4A	4
WRIT 1E or 2E[2]	4	PHYS 7A	4	PHYS 7B	4
		WRIT 2E or 50E[2]	4	WRIT 50E or G.E.[2]	4
TOTAL	**16**		**17**		**17**

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	ECE 139 or PSTAT 120A[5]	4
CMPSC 32[3]	4	PHYS 7D	3	ECE 152A	5
PHYS 7C	4	MATH 6A	4	CMPSC 40[3]	5
		PHYS 7L[4]	1		
TOTAL	**17**		**17**		**19**

JUNIOR YEAR

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

SENIOR YEAR

FALL	units	WINTER	units	SPRING	units
ECE 189A[6]/ CMPSC 189A[7]	4	ECE 189B/ CMPSC 189B	4	ECE 189C or CMPEN Elective	4
CMPEN Electives	8	ENGR 101[8]	3	CMPEN Elective	4
G.E.	4	CMPEN Elective	4	G.E.	4
		G.E.	4		
TOTAL	**16**		**15**		**12**

[1] ECE 5 is also offered in winter quarter.
[2] ELWR may also be satisfied by LING 12 or WRIT 1. Area A1 may also be satisfied by WRIT 2. Area A2 may also be satisfied by courses listed on page 11.
[3] CMPSC 32 is also offered in spring quarter. CMPSC 40 is also offered in fall and winter quarters.
[4] PHYS 7L may be taken concurrently with PHYS 7C or after taking PHYS 7C.
[5] PSTAT 120A is offered each quarter. ECE 139 is offered only in the spring quarter and is better suited for future upper division electives for the Computer Engineering major.
[6] ECE 153B is the prerequisite to ECE 189A.
[7] CMPSC 156 is the prerequisite for CMPSC 189A.
[8] ENGR 101 may be taken any quarter of the senior year.