

COMPUTER ENGINEERING 2022-23

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 1, 2, 3, 3L, 4, 4L	16

UPPER DIVISION MAJOR	68
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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 181	ECE 180
CMPSC138	ECE 122A-B	ECE 194AA-194ZZ
CMPSC 153A/	ECE 123	(except 194R)
ECE153A	ECE130A-B-C	
CMPSC 156	ECE 133	
CMPSC 160	ECE 147A-B	
CMPSC 162	ECE 149	
CMPSC 165A-B	ECE 150	
CMPSC 170	ECE 153B	
CMPSC 171	ECE 154B	
CMPSC 174A	ECE 157A-B	
CMPSC 176A-B-C	ECE 160	
CMPSC 177	ECE 178	
CMPSC 178	ECE 179D,	
CMPSC 181/	179P	

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
 (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 GRADUATION191

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

SOPHOMORE YEAR

FALL	units	WINTER	units	SPRING	units
CMPSC 32 or CMPSC 40	4/5	CMPSC 32 or CMPSC 40	4/5	ECE 10C	3
ECE 10A	3	ECE 10B	3	ECE 10CL	2
ECE 10AL	2	ECE10BL	2	ECE 139 or PSTAT 120A ²	4
MATH 4B	4	ECE 15A	4	ECE 152A	5
PHYS 3	3	PHYS 4	3	MATH 6A	4
PHYS 3L	1	PHYS 4L	1		
TOTAL	17/18		17/18		18

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 ³ / CMPSC 189A ⁴	4	ECE 189B/ CMPSC 189B	4	ECE 189C or CMPEN Elective	4
CMPEN Electives	8	ENGR 101 ⁵	3	CMPEN Elective	4
G.E. ⁶	4	CMPEN Elective	4	G.E.	4
		G.E.	4		
TOTAL	12		16		12

¹ Students with no prior computer programming background should take either ECE 3 or CMPSC 8.

² 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.

³ ECE 153B is the prerequisite to ECE 189A.

⁴ CMPSC 156 is the prerequisite for CMPSC 189A.

⁵ ENGR 101 may be taken any quarter of the senior year.

⁶ Students must complete at least 12 units per quarter. Students must complete at least 191 units to graduate. See an advisor for more information.