

**COMPUTER ENGINEERING 2023-24**

	Units
<b>PREPARATION FOR THE MAJOR</b>	
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
<b>UPPER DIVISION MAJOR</b>	
	<b>68</b>
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 177	ECE 154B
CMPSC 138	CMPSC 178	ECE 157A-B
CMPSC 153A/	CMPSC 181/	ECE 160
ECE 153A	ECE 181	ECE 178
CMPSC 156	ECE 122A-B	ECE 179D,
CMPSC 160	ECE 123	179P
CMPSC 162	ECE130A-B-C	ECE 180
CMPSC 165A-B	ECE 133	ECE 194AA-
CMPSC 170	ECE 147A-B	194ZZ
CMPSC 171	ECE 149	(except 194R)
CMPSC 174A	ECE 150	
CMPSC 176A-B-C	ECE 153B	

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 GRADUATION ..... 191**

## COMPUTER ENGINEERING 2023-24

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

<b>FALL</b>	<b>units</b>	<b>WINTER</b>	<b>units</b>	<b>SPRING</b>	<b>units</b>
ECE 3 or CMPSC 8 <sup>1</sup>	4	CMPSC 16	4	CMPSC 24	4
ECE 5 <sup>2</sup>	4	ECE 1A	1	ECE 1B	1
MATH 3A	4	MATH 3B	4	MATH 4A	4
WRIT 1E or 2E	4	PHYS 7A	4	PHYS 7B	4
		WRIT 2E or 50E	4	WRIT 50E or G.E.	4
<b>TOTAL</b>	<b>16</b>		<b>17</b>		<b>17</b>

### SOPHOMORE YEAR

<b>FALL</b>	<b>units</b>	<b>WINTER</b>	<b>units</b>	<b>SPRING</b>	<b>units</b>
ECE 10A	3	ECE 10B	3	ECE 10C	3
ECE 10AL	2	ECE10BL	2	ECE 10CL	2
MATH 4B	4	ECE 15A	4	ECE 139 or PSTAT 120A <sup>4</sup>	4
CMPSC 32 <sup>3</sup>	4	PHYS 7C	4	ECE 152A	5
CMPSC 40 <sup>3</sup>	5	MATH 6A	4	PHYS 7D	3
				PHYS 7L	1
<b>TOTAL</b>	<b>18</b>		<b>17</b>		<b>18</b>

### JUNIOR YEAR

<b>FALL</b>	<b>units</b>	<b>WINTER</b>	<b>units</b>	<b>SPRING</b>	<b>units</b>
ECE 154A	4	CMPSC 130A	4	CMPEN Electives	8
CMPEN Electives	8	CMPEN Electives	8	G.E.	8
G.E.	4	G.E.	4		
<b>TOTAL</b>	<b>16</b>		<b>16</b>		<b>16</b>

### SENIOR YEAR

<b>FALL</b>	<b>units</b>	<b>WINTER</b>	<b>units</b>	<b>SPRING</b>	<b>units</b>
ECE 189A <sup>5</sup> / CMPSC 189A <sup>6</sup>	4	ECE 189B/ CMPSC 189B	4	ECE 189C or CMPEN Elective	4
CMPEN Electives	8	ENGR 101 <sup>7</sup>	3	CMPEN Elective	4
G.E.	4	CMPEN Elective	4	G.E.	4
		G.E.	4		
<b>TOTAL</b>	<b>16</b>		<b>15</b>		<b>12</b>

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

<sup>2</sup> ECE 5 is also offered in winter quarter.

<sup>3</sup> CMPSC 32 is also offered in spring quarter. CMPSC 40 is also offered in winter and spring quarters.

<sup>4</sup> 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.

<sup>5</sup> ECE 153B is the prerequisite to ECE 189A. <sup>6</sup> CMPSC 156 is the prerequisite for CMPSC 189A.

<sup>7</sup> ENGR 101 may be taken any quarter of the senior year.