

## ELECTRICAL ENGINEERING 2016-17

Units

Units

**PREPARATION FOR THE MAJOR 79**

CHEM 1A, 1AL or 2A, 2AC	5
CMPSC 16	4
ECE 5	4
ECE 10A, 10AL, 10B, 10BL, 10C, 10CL	15
ECE 15A	4
ENGR 3	3
MATH 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

Departmental electives selected from  
the following list: 32

*Prior approval of the student's departmental electives must  
be obtained from the student's faculty adviser.  
Must include at least 2 sequences, one of which must be an  
approved EE Senior Capstone Design/Project course sequence.*

Approved Departmental Electives:

ECE 120A-B	ECE 147A-B-C	ECE 179D, P
ECE 122A-B	ECE 148	ECE 181B
ECE 123	ECE 150	ECE 183
ECE 125	ECE 153A-B	ECE 188A-B-C
ECE 130C	ECE 154A-B	ECE 192 or 196 (4 units combined max)
ECE 135	ECE 155A-B	ECE 194AA-ZZ (excluding ECE 194R)
ECE 141A-B	ECE 156A-B	TMP 120, 122
ECE 142	ECE 158	(1 course max)
ECE 144	ECE 160	MATRL 100A, C
ECE 145A-B-C	ECE 162A-B-C	MATRL 100B or MATRL 101
ECE 146A-B	ECE 178	MATRL 162A-B

Departmental Electives taken:


Courses required for the major, inside or outside of the  
Department of Electrical and Computer Engineering, cannot  
be taken for the passed/not passed grading option. They must  
be taken for **letter** grades.

**UNIVERSITY REQUIREMENTS**

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

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

Satisfied by: \_\_\_\_\_

**GENERAL EDUCATION****General Subject Areas**

Area A: English Reading & Comprehension – (2 courses required)

A-1: \_\_\_\_\_ A-2: \_\_\_\_\_

Areas D & E: Social Sciences, Culture and Thought  
(2 courses minimum)

Areas F & G: The Arts, Literature  
(2 courses minimum)

2 additional courses from Areas D, E, F, G, or H

**Special Subject Areas**

Depth:

Ethnicity (1 course): \_\_\_\_\_

European Traditions (1 course): \_\_\_\_\_

Writing (4 courses required):

**NON-MAJOR ELECTIVES****42**

General Education and Free Electives taken:


**TOTAL UNITS REQUIRED FOR GRADUATION ..... 189**

# ELECTRICAL ENGINEERING 2016-17

## FRESHMAN YEAR

<b>FALL</b>	<b>units</b>	<b>WINTER</b>	<b>units</b>	<b>SPRING</b>	<b>units</b>
CHEM 1A or 2A	3	ECE 5	4	CMPS 16	4
CHEM 1AL or 2AC	2	MATH 3B	4	MATH 4A	4
ENGR 3	3	PHYS 1	4	PHYS 2	4
MATH 3A	4	WRIT 2E or 50E	4	WRIT 50E or G.E.	4
WRIT 1E or 2E	4				
<b>TOTAL</b>	<b>16</b>		<b>16</b>		<b>16</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	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
		PHYS 4L	1		
<b>TOTAL</b>	<b>13</b>		<b>17</b>		<b>13</b>

## JUNIOR YEAR

<b>FALL</b>	<b>units</b>	<b>WINTER</b>	<b>units</b>	<b>SPRING</b>	<b>units</b>
ECE 130A	4	ECE 130B	4	ECE 137B	4
ECE 132	4	ECE 137A	4	ECE 139 <sup>1</sup>	4
ECE 134	4	ECE Elective	4	ECE 152A <sup>2</sup>	5
G.E. or Free Elective	4	G.E. or Free Elective	4	G.E. or Free Elective	4
<b>TOTAL</b>	<b>16</b>		<b>16</b>		<b>17</b>

## SENIOR YEAR

<b>FALL</b>	<b>units</b>	<b>WINTER</b>	<b>units</b>	<b>SPRING</b>	<b>units</b>
ECE Electives	12	ECE Electives	8	ECE Electives	8
G.E. or Free Elective	4	G.E. or Free Electives	8	ENGR 101	3
				G.E. or Free Electives	6
<b>TOTAL</b>	<b>16</b>		<b>16</b>		<b>17</b>

<sup>1</sup> ECE 139 may also be taken in the spring quarter of the sophomore year.

<sup>2</sup> ECE 152A may also be taken in the spring quarter of the sophomore year.