

COMPUTER ENGINEERING

CALIFORNIA STATE UNIVERSITY, FRESNO

2024-2025 CATALOG

The suggested program of study on this page is for general information and academic planning purposes and is not a substitute for the University Catalog. Consult the 2024-2025 University Catalog for more detailed information.

FIRST SEMESTER

ENGR 1. Intro to Engineering	1
Area A1 Comm 3, 7, 8	3
Area A2 Engl. 10 Comp. or 5A&B	3
Area B4 Math 75 Math. Analysis I	4
Area B2 Biol 10 (life science)	3
	14

SECOND SEMESTER

ECE 1 Intro to EE and CompE.	1
ECE 72 Intro to EE/CompE Tools	2
Math 76 Mathematical Analysis II	4
Phys 4A Mechanics	3
PISci (Grad Reuirment)	3
Area C2 Phil ³	3
	16

THIRD SEMESTER

ECE71/or CSci 40 Intro. to Prog.	4
ECE 85 Digital Logic Design	3
ECE 85L Digital Logic Design Lab	1
Math 77 Mathematical Analysis III	4
Phys 4B Elect., Magn. and Heat	3
Phys 4BL Elect., Magn. and Heat Lab	1
ECE 103 Professional Dev. Skills	1
	17

FOURTH SEMESTER

CSCI 41 Data Structures	4
ECE 90 Prin. of Electrical Circuits	3
ECE 90L Prin. of Elect. Circuits Lab	1
ECE 106 Switching Theory	3
ECE 118 Microp. Arch. And Prog.	3
ECE 118L Microcontroller Lab	1
Math 81/Engr 101	3
	18

FIFTH SEMESTER

ECE 102 Advanced CKT Analysis	3
ECE 128 Electronics I	3
ECE 128L Electronics I lab.	1
ECE 141 Algorithmic Computations	3
ECE 141L Algorithmic Comp Lab	1
_____ Technical Area Course¹	3
	14

SIXTH SEMESTER

ECE 125 Probabilistic Engr. Sys. Analy.	3
ECE 146 Computer Networks.	3
ECE 144 Embedded OS	3
_____ Technical Area Course¹	3
Area B1 Chem. 3A General Chem.	4
	16

SEVENTH SEMESTER

ECE 186A Senior Design I	1
ECE 176 Adv. Digital Design Design	3
ECE 178 Embedded Systems	4
_____ Technical Area Course¹	3
Area D1 Hist 11, 12	3
Area D2: Econ 40 or 50	3
	17

EIGHTH SEMESTER

ECE 174 Computer Architecture	3
Area IB ECE 186B Senior Design II	3
_____ Technical Area Course¹	3
Area F² – Ethnic Studies	3
	12

Total units for the program

124

1 Upper Division ECE and CSCI courses (maximum 6 CSCI units).

2 Interdisciplinary and comparative study of race and ethnicity- Foundation, Breath, and Integration - Lower division GE

3 Area C2: Phil 1 or 2 or 10 or 20

4 Select from: ECE 122L, 155L, ECE 119L, ECE 121L; ECE 134L, ECE 136L

General Education

Area A1: Communication 3, 7, or 8

Area A2: Engl 10 or Engl 5A and 5B

Area A3: Exempt

Area B1: Chem 3A

Area B2: Bio 10 or 1A

Area B3: Phys 4BL

Area B4: Math 75 (*A student who has earned 15 units will get a warning pop-up if not passed or not registered in the B4 course.*

A student who has earned 30 units and has not passed or not registered in the B4 course will get the hold pop-up at the time of registration.)

Area C1: Exempt

Area C2: Phil 1 or 2 or 10 or 20

Area D1: Hist 11 or 12

Area D2: Econ 40 or 50

Area E: Exempt

Area F: Any upper or lower division GE area F

Area IB: Exempt/ECE 186B

Area IC: Exempt

Area ID: Exempt/ECE 118

Graduation Requirement: PLCI 2