COMPUTER ENGINEERING

CALIFORNIA STATE UNIVERSITY, FRESNO
2025-2026 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 2025-2026 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
PlSci (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 Course[1]**	**3**
		14

SIXTH SEMESTER

ECE 125	Probabilistic Engr. Sys. Analy.	3
ECE 146	**Computer Networks.**	**3**
ECE 176	Adv. Digital Design Design	3
_____	Technical Area Course[1]	3
Area B1	Chem. 3A General Chem.	4
		16

SEVENTH SEMESTER

ECE 186A	Senior Design I	1
ECE 144	**Embedded OS**	**3**
ECE 178	Embedded Systems	4
_____	Technical Area Course[1]	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 Course[1]	3
Area F[2] – 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

May 21, 2025

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 0r 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