

COMPUTER ENGINEERING

CALIFORNIA STATE UNIVERSITY, FRESNO

2023-2024 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 2023-2024 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 Composition 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 Engr Tools	2
Math 76	Mathematical Analysis II	4
Phys 4A	Mechanics	3
PLSci (Grad Requirement)		3
Area C2	Phil ³	3
		16

THIRD SEMESTER

ECE 71 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	Computer Systems Lab	1
Math 81/Engr 101		3
		18

FIFTH SEMESTER

ECE 102	Advanced Circuit Analysis	3
ECE 128	Electronics I	3
ECE 128L	Electronics I lab.	1
ECE 141	Algorithmic Computations	3
ECE 141L	Algorithmic Computations 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 Chemistry	4
		16

SEVENTH SEMESTER

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

EIGHTH SEMESTER

ECE 174	Computer Architecture	3
Area IB	ECE 186B Sen. Design II	3
_____	Technical Area Course²	3
Area F2²	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

General Education

Area A1: Communication 3, 7, or 8

Area A2: Engl 10 or Engl 5A & 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