

COMPUTER ENGINEERING

CALIFORNIA STATE UNIVERSITY, FRESNO

2021-2022 CATALOG

This sheet is for general information and is not by any means a substitute for the University Catalog. You must consult the 2021-2022 University Catalog for more detailed information

FIRST SEMESTER

ECE 1	Intro to EE and CompE	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

ECE71/or CSci 40	Intro. to Programing	3
Math 76	Mathematical Analysis II	4
Phys 4A	Mechanics	3
Area C2	Phil ³	3
Area D2	PI Sci 2	3
		16

THIRD SEMESTER

CSCI 41	Data Structures	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	2
		18

FOURTH SEMESTER

ECE 72	Intro to EE/CompE Tools	2
ECE 90	Prin. of Electrical Circuits	3
ECE 90L	Prin. of Elect. Circuits Lab	1
ECE 106	Advanced Digital design	3
ECE 141	Advanced Algorithm Design	3
ECE 141L	Algorithm Design Lab	1
Math 81/Engr 101		3
		16

FIFTH SEMESTER

ECE 124	Signals and Systems	3
ECE 128	Electronics I	3
ECE 118	Microp. Arch. And Prog.	3
ECE 118L	Microcontroller Lab	1
ECE 128L	Electronics I lab.	1
ECE 144	Embedded OS	3
		14

SIXTH SEMESTER

ECE 125	Probabilistic Engr. Sys. Analy.	3
ECE 146	Computer Networks.	3
	Technical Area Course ¹	3
	Technical Area Course ¹	3
Area B1	Chem. 3A General Chem.	4
		16

SEVENTH SEMESTER

ECE 186A	Senior Design I	1
ECE 176	CAE in Digital Design	3
ECE 178	Embedded Systems	4
	Technical Area Course ¹	3
Econ 40 or 50		3
Area D1	Hist 11, 12	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
ECE ____	Lab elective ⁴	1
		13

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: Phil1 or 10 or 20 or 25 or 45

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 10 or 20 or 25 or 45

Area D1: Hist 11 or 12

Area D2: PISci 2

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