ELECTRICAL 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
Area B1	Chem. 3A General Chem.	4
Area C2	Phil[1]	3
		17

THIRD SEMESTER

ECE 71	Engineering Computations	3
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
		15

FOURTH SEMESTER

ECE 90	Prin. of Electrical Circuits	3
ECE 90L	Prin. of Elect. Circuits Lab	1
ECE 118	Microp. Arch. And Prog.	3
ECE 118L	Computer Systems Lab	1
Math 81/Engr 101		3
ECE 111	OPT Engr	3
PLSci 2 (Grad. Requirement)		3
		17

FIFTH SEMESTER

ECE 102	Advanced Circuit Analysis	3
ECE 103	Professional Development Skills	1
ECE 126	Electromagnetics I	3
ECE 128	Electronics I	3
ECE 128L	Electronics I lab.	1
ME 29 (Statics) or ME 136 (Thermo)		3
		14

SIXTH SEMESTER

ECE 123	Discrete-time Signal Processing	3
ECE 124L	Signals and Systems Lab	1
ECE 121	Energy Conversion	3
ECE 125	Probabilistic Engr. Sys. Analy.	3
ECE 138	Electronics II	3
ECE 138L	Electronics II Lab	1
ECE 155	Control Systems	3
		17

SEVENTH SEMESTER

ECE 134	Communications	3
ECE 186A	Senior Design I	1
_____	Technical Area Course[2]	3
_____	Senior Lab[3]	1
Area D1:	Hist 11, 12	3
Area D2:	Econ 40 or 50 (Micro or Macro)	3
		14

EIGHTH SEMESTER

Area IB	ECE 186B Sen. Design	3
_____	Technical Area Course[2]	3
_____	Technical Area Course[2]	3
_____	Math Elective[4]	3
_____	Senior Lab[3]	1
Area F2[5]:	Ethnic Studies	3
		16

Total units for the program   124

1. Area C2: Phil 1 or 2 or 10 or 20
2. Select from the list of Technical Area Courses including labs
3. Select from: ECE 155L, ECE 119L, ECE 121L; ECE 134L, ECE 136L
4. Select from: ENGR 102, Math 121, Math 123, Math 128, Math 152, Math 171, Math 181, Math 182
5. Interdisciplinary and comparative study of race and ethnicity – Lower division GE area Foundation, Breath, and Integration

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