ELECTRICAL 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 Area A1 Comm 3, 7, 8 Area A2 Engl 10 Composition or 5A&B Area B4 Math 75 Math. Analysis I Area B2 Biol 10 (life science)	1 3 3 4 3 14	SECOND SEMESTER ECE 1 Intro to EE and CompE ECE 72 Intro to EE/CompE Engr Tools Math 76 Mathematical Analysis II Phys 4A Mechanics Area B1 Chem. 3A General Chem. Area C2 Phil ¹	1 2 4 3 4 3
THIRD SEMESTER ECE 71 Engineering Computations ECE 85 Digital Logic Design ECE 85L Digital Logic Design Lab Math 77 Mathematical Analysis III Phys 4B Elect., Magn. and Heat Phys 4BL Elect., Magn. and Heat Lab	4 3 1 4 3 1 16	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 ECE 103 Professional Development Skills ECE 126 Electromagnetics I ECE 128 Electronics I ECE 128L Electronics I lab. ME 29 (Statics) or ME 136 (Thermo)	3 3 3 1 3 1 3	SIXTH SEMESTER ECE 123 Discrete-time Signal Processing ECE 124L Signals and Systems Lab 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	
SEVENTH SEMESTER ECE 134 Communications ECE 186A Senior Design I Technical Area Course ² Senior Lab ³ Area D1 Hist 11, 12 Area D2: Econ 40 or 50 (Micro or Macro)	3 1 3 1 3 3 14	EIGHTH SEMESTERArea IBECE 186B Sen. Design3 Technical Area Course23 Technical Area Course23 Math Elective43Area F25 – Ethnic Studies3	
Total units for the J	12	24	

- 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