

ELECTRICAL ENGINEERING

CALIFORNIA STATE UNIVERSITY, FRESNO

2022-2023 CATALOG

This sheet is for general information and is not by any means a substitute for the University Catalog. You must consult the 2022-2023 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 Composition or 5A&B 3 Area B4 Math 75 Math. Analysis I 4 Area B2 Biol 10 (life science) 3 14			SECOND SEMESTER 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 16		
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 3 Area D2 Pl Sci 2 3 17		
FIFTH SEMESTER ECE 102 Advanced Circuit Analysis 3 ECE 103 Professional Development Skills 2 ECE 124 Signals and Systems 3 ECE 124L Signals and Systems Lab 1 ECE 126 Electromagnetics I 3 ECE 128 Electronics I 3 ECE 128L Electronics I lab. 1 16			SIXTH SEMESTER ME 29 (Statics) or ME 136 (Thermo) 3 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 16		
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 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 F2⁵ – Ethnic Studies 3 16		
Total units for the program			124		

1. Area C2: Phil 1 or 10 or 20 or 25 or 45
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 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