

ELECTRICAL ENGINEERING

CALIFORNIA STATE UNIVERSITY, FRESNO

2023-2024 CATALOG

This sheet is for general information and is not by any means a substitute for the University Catalog. You must consult the 2023-2024 University Catalog for more detailed information

<p><i>FIRST SEMESTER</i></p> <p>ENGR 1 Intro to Engineering 1</p> <p>Area A1 Comm 3, 7, 8 3</p> <p>Area A2 Engl 10 Composition or 5A&B 3</p> <p>Area B4 Math 75 Math. Analysis I 4</p> <p>Area B2 Biol 10 (life science) 3</p> <p style="text-align: right;">14</p>	<p><i>SECOND SEMESTER</i></p> <p>ECE 1 Intro to EE and CompE 1</p> <p>ECE 72 Intro to EE/CompE Engr Tools 2</p> <p>Math 76 Mathematical Analysis II 4</p> <p>Phys 4A Mechanics 3</p> <p>Area B1 Chem. 3A General Chem. 4</p> <p>Area C2 Phil¹ 3</p> <p style="text-align: right;">17</p>
<p><i>THIRD SEMESTER</i></p> <p>ECE 71 Engineering Computations 3</p> <p>ECE 85 Digital Logic Design 3</p> <p>ECE 85L Digital Logic Design Lab 1</p> <p>Math 77 Mathematical Analysis III 4</p> <p>Phys 4B Elect., Magn. and Heat 3</p> <p>Phys 4BL Elect., Magn. and Heat Lab 1</p> <p style="text-align: right;">15</p>	<p><i>FOURTH SEMESTER</i></p> <p>ECE 90 Prin. of Electrical Circuits 3</p> <p>ECE 90L Prin. of Elect. Circuits Lab 1</p> <p>ECE 118 Microp. Arch. And Prog. 3</p> <p>ECE 118L Computer Systems Lab 1</p> <p>Math 81/Engr 101 3</p> <p>ECE 111 3</p> <p>PL Sci 2 (Grad. Requirement) 3</p> <p style="text-align: right;">17</p>
<p><i>FIFTH SEMESTER</i></p> <p>ECE 102 Advanced Circuit Analysis 3</p> <p>ECE 103 Professional Development Skills 1</p> <p>ECE 126 Electromagnetics I 3</p> <p>ECE 128 Electronics I 3</p> <p>ECE 128L Electronics I lab. 1</p> <p>ME 29 (Statics) or ME 136 (Thermo) 3</p> <p style="text-align: right;">14</p>	<p><i>SIXTH SEMESTER</i></p> <p>ECE 123 Discrete-time Signal Processing 3</p> <p>ECE 124L Signals and Systems Lab 1</p> <p>ECE 121 Energy Conversion 3</p> <p>ECE 125 Probabilistic Engr. Sys. Analy. 3</p> <p>ECE 138 Electronics II 3</p> <p>ECE 138L Electronics II Lab 1</p> <p>ECE 155 Control Systems 3</p> <p style="text-align: right;">17</p>
<p><i>SEVENTH SEMESTER</i></p> <p>ECE 134 Communications 3</p> <p>ECE 186A Senior Design I 1</p> <p>_____ Technical Area Course² 3</p> <p>_____ Senior Lab³ 1</p> <p>Area D1 Hist 11, 12 3</p> <p>Area D2: Econ 40 or 50 (Micro or Macro) 3</p> <p style="text-align: right;">14</p>	<p><i>EIGHTH SEMESTER</i></p> <p>Area IB ECE 186B Sen. Design 3</p> <p>_____ Technical Area Course² 3</p> <p>_____ Technical Area Course² 3</p> <p>_____ Math Elective⁴ 3</p> <p>_____ Senior Lab³ 1</p> <p>Area F2⁵ – Ethnic Studies 3</p> <p style="text-align: right;">16</p>
<p>Total units for the program 124</p>	

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