

ELECTRICAL ENGINEERING

CALIFORNIA STATE UNIVERSITY, FRESNO

2025-2026 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 2025-2026 University Catalog for more detailed information.

FIRST SEMESTER			Units	SECOND SEMESTER			Units
ENGR 1	Introduction to Engineering		1	ECE 1	Intro to EE and CompE		1
Area 1A	ENGL 10 Composition or 5A&B		3	ECE 72	Intro to Elec/Comp Engr Tools		2
Area 1C	COMM 3, 7, or 8		3	MATH 76	Calculus II		4
Area 2	MATH 75 Calculus I		4	PHYS 4A	Mechanics and Wave Motion		3
Area 5B	BIO 10 Life Science		3	Area 3B	PHIL 1, 2, 10, or 20		3
				Area 5A	Chem 3A Intro Gen Chemistry		4
Total First Semester Units:			14	Total Second Semester Units:			17
THIRD SEMESTER			Units	FOURTH SEMESTER			Units
ECE 71	Intro to Computational Prog		3	ECE 90	Principles of Electrical Circuits		3
ECE 85	Digital Logic Design		3	ECE 90L	Principles of Elect Circuits Lab		1
ECE 85L	Digital Logic Design Lab		1	ECE 118	Microprocessor Arch and Prog		3
MATH 77	Calculus III		4	ECE 118L	Microcontroller Lab		1
PHYS 4B	Electricity, Magnetism, and Heat		3	MATH 81 / ENGR 101			3
PHYS 4BLE	Electricity, Magnetism, Heat Lab		1	ECE 111	Fund Principals of Optical Engr		3
				PLSI 2	(Graduation Requirement)		3
Total Third Semester Units:			15	Total Fourth Semester Units:			17
FIFTH SEMESTER			Units	SIXTH SEMESTER			Units
ECE 102	Advanced Circuit Analysis		3	ECE 123	Discrete Time Signals and Sys		3
ECE 103E	Professional Develop Skills		1	ECE 124L	Signal and Systems Lab		1
ECE 126	Electromagnetics I		3	ECE 121	Energy Conversion		3
ECE 128	Electronics I		3	ECE 125	Probabilistic Engr Sys Analysis		3
ECE 128L	Electronics I Lab		1	ECE 138	Electronics II		3
ME 29 Statics or ME 136	Thermodynamics		3	ECE 138L	Electronics II Lab		1
				ECE 155	Control Systems		3
Total Fifth Semester Units:			14	Total Sixth Semester Units:			17
SEVENTH SEMESTER			Units	EIGHTH SEMESTER			Units
ECE 134	Communication Engineering		3	ECE 186B	Senior Design II		3
ECE 186A	Senior Design I		1	_____	Technical Area Course ¹		3
_____	Technical Area Course ¹		3	_____	Technical Area Course ¹		3
_____	Senior Lab ²		1	_____	Technical Area Course ¹		3
Area 4A	HIST 11, 12		3	_____	Senior Lab ²		1
Area 4B	ECON 40 Micro/ECON 50 Macro		3	Area 6	Ethnic Studies		3
Total Seventh Semester Units:			14	Total Eighth Semester Units:			16
Total units for the program:						124	

1. Select from the list of Technical Area Courses, including labs
2. Select from: ECE 155L, ECE 119L, ECE 121L; ECE 134L, ECE 136L
3. Select from: ENGR 102, Math 121, Math 123, Math 128, Math 152, Math 171, Math 181, Math 182
4. Upper division writing requirement can be fulfilled by any W course

General Education

Area 1A: ENGL 10 or ENGL 5A & 5B

Area 1B: Exempt

Area 1C: COMM 3, 7, or 8

Area 2: MATH 75

Area 3A: Exempt

Area 3B: PHIL 1, 2, 10, or 20

Area 4A: HIST 11 or 12

Area 4B: ECON 40 or 50

Area 5A: CHEM 3A

Area 5B: BIO 10 or 1A

Area 5C: PHYS 4BL

Area 6: Any upper or lower division GE area F

Area UD 3: Exempt

Area UD 4: ECE 118

Area UD 5: ECE 186B

Additional Fresno State Graduation Requirements

US & CA Gov: PLSI 2

A/H: Exempt

L/S: Exempt

M/I: Exempt