CAL POLY
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B.S. in ELECTRICAL ENGINEERING
Suggested Academic Flowchart for Transfer Students Admitted Fall 2023

2020-21 Catalog
Unofficial

Updated 6/29/2022

Please note: This flowchart is one example of how students can graduate in 3 years. We encourage students to this use as a tool in creating their own unique quarter by quarter graduation plan.

Introduction to Electrical Engineering & Lab
EE 111 (1) & EE 151 (1)

EE Transfer Students should not take EE 111 & 151; instead students can fultill this requirement with two additional units of approved technical electives or approved support electives. Check your DPR to verify if requirement is satisfied with transfer credit.

This Transfer Student Flowchart assumes equivalents for the courses below have been transferred to Cal Poly. Anything not transferred, needs to be added to this flowchart, which may result in an additonal quarter/s. Check your DPR to verify credit:

- ☐ MATH 141
- ☐ MATH 142
- ☐ MATH 143
- ☐ MATH 241
- ☐ MATH 244
- ☐ PHYS 141
- ☐ PHYS 132
- ☐ PHYS 133
- ☐ CHEM 124
- ☐ EE 113 (EE 112)
- ☐ EE 211
- ☐ EE 241
- ☐ CPE 101
- ☐ BIO/BMED 213 (B2)
- ☐ 9 UNITS OF APPROVED SUPPORT ELECTIVES***
- ☐ GE AREA A1
- ☐ GE AREA A2
- ☐ GE AREA A3^
- ☐ GE AREA C1
- ☐ GE AREA C2
- ☐ GE AREA LOWER DIVISION C ELECTIVE
- ☐ GE AREA D1
- ☐ GE AREA D2
- ☐ GE AREA D ELECTIVE
- ☐ GE AREA E

YEAR 1			YEAR 2			YEAR 3		
Fall	Winter	Spring	Fall	Winter	Spring	Fall	Winter	Spring
Electric Circuit Analysis III & Lab **EE 212 (3) & EE 242 (1)** (MATH 244, EE 211, 241)	*Semiconductor Device Electronics & Lab* **EE 306 (3) & EE 346 (1)** (CHEM 124; EE 212 & 242; EE 143 or IME 156 or IME 458; PHYS 211)	*Digital Electronics & Integrated Circuits & Lab* **EE 307 (3) & EE 347 (1)** (CPE/EE 133, EE 306 & 346; CPE/EE 233†)	*Analog Electronics & Integrated Circuits & Lab* **EE 308 (3) & EE 348 (1)** (EE 302 & 342, EE 307 & 347)	*Electronic Design & Lab* **EE 409 (3) & EE 449 (1)** (EE 308 & 348; CPE/EE 328 & 368, or CPE 327 & 367; CPE/EE 329 or 336 or CPE 316)	*Electromagnetic Fields & Transmission & Lab* **EE 335 (4) & EE 375 (1)** (EE 201 & 251; or EE 212 & 242 or EE 215 & 245; and MATH 241)	**Technical Elective** **(3)[3]** ***	**Technical Elective** **(4)[3]** ***	**Technical Elective** **(4)[3]** ***
Digital Design **CPE/EE 133 (4)** (EE 111 & 151, CPE/CSC 101)	*Computer Design & Assembly Language Programming* **CPE/EE 233 (4)** (CPE/EE 133)	*Classical Control Systems & Lab* **EE 302 (3) & EE 342 (1)** (EE 228; Recom: EE 368 or CPE 327 & 367)	*Discrete Time Signals & Systems & Lab* **EE 328 (3) & EE 368 (1)** (BMED 355 or EE 228)	*Introduction to Communication Systems* **EE 314 (3)** (EE 228 or CPE/EE 327; STAT 350† & EE 306† or EE 315†)	*Energy Conversion Electromagnetics & Lab* **EE 255 (3) & EE 295 (1)** (EE 212 & 242 or EE 201 & 251 or EE 215 & 245)	*Senior Project Preparation* **EE 460 (2)[2]** (EE 314, 335. Coreq: EE 409† & 449†)	**Choose One Series[2]:** *Senior Project I & II* **EE 461 (2)** (EE 409, 449, 460) **EE 462 (2)** (EE 461) **OR** *Senior Project Design Lab I & II* **EE 463 (2)** (EE 409, 449, 460) **EE 464 (2)** (EE 463)	
Electronics Manuf. & Circuit Analysis Lab **EE 143 (1)[1]** (Math 142; Concurrent: EE 113; Recom: EE 111, EE 151; PHYS 133)	*Continuous-Time Signals & Systems* **EE 228 (4)** (BMED 355 or EE 212, 242; Recom: MATH 241)	*Probability and Random Processes for Engineers* **STAT 350 (4)*** (MATH 241, EE 228 or CPE 327) [Upper-Div GE Area B]	**Choose one:** *Microcontroller-Based Systems Design* **CPE/EE 329 (4)*** **OR** *Microprocessor System Design* **EE 336 (4)***	**Upper-Division C (4)**** (combine with USCP requirement if still needed)	any remaining support or GE not transferred in	*Electromagnetic Waves* **EE 402 (4)** (EE 335)	any remaining support or GE not transferred in	any remaining support or GE not transferred in
Modern Physics I **PHYS 211 (4)** (PHYS 132; 133; MATH 241. Recom: MATH 242 or 244)				any remaining support or GE not transferred in		any remaining support or GE not transferred in	any remaining support or GE not transferred in	any remaining support or GE not transferred in
13	12	12	12	11+	9+	9+	6+	6+

Graduation Writing Requirement GWR*
(Must be fulfilled before graduation by either enrolling in a GWR-approved, upper-division English course (which can double-count with the Upper-Division C) OR by completing the GWR Portfolio through enrolling in UNIV 401. GWR courses are searchable on Schedule Builder).

Notes:

MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET

* Refer to current catalog for prerequisites.

**Refer to the catalog for GE course selection, United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR).
USCP requirement can be satisfied by some (but not all) courses within GE categories: C1, Upper-Division C, D1, D2, D Elective, or E

*** Refer to your catalog for course selection.

SOME EE COURSES WILL NEED TO BE ENROLLED IN BY PERMISSION NUMBER ONLY. MAKE SURE TO READ ALL THE SECTION NOTES IN SCHEDULE BUILDER EACH QUARTER TO IDENTIFY THESE COURSES.

† Course can be taken previously or concurrently.

[1] Transfer students take EE 143 (1) and EE 113 (3) (Formely EE 112) and one additional unit of free elective.

[2] ENGR 459, ENGR 460 and ENGR 461 (6) may substitute for the series EE 460, EE 461 and EE 462 (6) or the series EE 460, EE 463 and EE 464 (6).

[3] See catalog for course options. Consultation with advisor is recommended prior to selecting technical electives or approved electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals. No course credits may be used simultaneously to satisfy both engineering support and technical elective requirements.

^ENGL 149 has been discontinued. For those who still need to take this requirement, you will need to replace this requirement with any GE A3 course.

Legend:

Course Title
Course # (Units)
(Prerequisite)
[GE Area]

Major
Support
General Ed.