CAL POLY
SAN LUIS OBISPO

B.S. in GENERAL ENGINEERING
(Individual Course of Study Concentration)
Suggested 2-Year Academic Flowchart for Transfer Students

2019-2020 Catalog
Unofficial

Please note: This flowchart is one example of how students can graduate in 2 years. Many times transfer students need longer than this. We encourage students to this use as a tool in creating their own unique quarter by quarter graduation plan.

Introduction to Engineering
ENGR 110 (2)

Transfer students should not take ENGR 110. Two units of an engineering intro course from a previous institution may substitute.

This Transfer Student Flowchart assumes equivalents for the courses below have been transferred to Cal Poly. Anything not transferred in needs to be added to this flowchart, which may result iin 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**
- ☐ **CHEM 125**
- ☐ **EE 201 & 251**
- ☐ **MATE 210 & 215**
- ☐ **ME 211**
- ☐ **CPE 101**[1]
- ☐ **ENGL 149 (A3)**
- ☐ **BIO213 & BMED**
- ☐ **GE AREA A1**
- ☐ **GE AREA A2**
- ☐ **GE AREA C1**
- ☐ **GE AREA C2**
- ☐ **GE AREA C3**
- ☐ **GE AREA D1**
- ☐ **GE AREA D2**
- ☐ **GE AREA D3**
- ☐ **GE AREA E**

	YEAR 1			YEAR 2		
	Fall	Winter	Spring	Fall	Winter	Spring
	Intro. To Design & Manufacturing **IME 144 (4)** (Recom: IME 140 or ME 129)	*Thermodynamics I*† **ME 302 (3)** (PHYS 132; ME 212 or CHEM 128)	*Fluid Mechanics I* **ME 341 (3)** (MATH 242 or 244; ME 212)	*Interdisciplinary Sr Design Project I* **ENGR 459 (2)**[4] (Sr standing)	*Interdisciplinary Sr Design Project II* **ENGR 460 (2)**[4] (ENGR 459)	*Interdisciplinary Sr Design Project III* **ENGR 461 (2)**[4] (ENGR 460)
	Engineering Dynamics **ME 212 (3)** (MATH 241; ME 211 or ARCE 211)	*Mechanics of Materials I* **CE 204 (3)** (ME 211)	**Choose one:** *Engin. Economics* **IME 314 (3)** (MATH 241) OR *Financial Decisions...* **IME 315 (3)** (MATH 142)	*Heat Transfer* **ME 350 (4)**[2] (CPE/CSC 101 or CSC 231 or 234; MATE 360 & 380, or ME 236 & 302 & ME 341)	Individual Course of Study **(4)***	Individual Course of Study **(4)***
	Math or Stat Elective MATH 344, STAT 312, or STAT 350 (4) * [B6]	**Physical Science Elective**[3] **(4)**	Individual Course of Study **(2)***	Individual Course of Study **(4)***	Individual Course of Study **(4)***	Individual Course of Study **(3)***
	GE C4 (4)** (combine with USCP requirement if still needed)	Individual Course of Study **(4)***	Individual Course of Study **(4)***	Individual Course of Study **(3)***	Individual Course of Study **(4)***	Individual Course of Study **(4)***
			Physical Science Elective[3] **(4)**	Any GE or Support Course Not Completed		Any GE or Support Course Not Completed
				Graduation Writing Requirement GWR* (Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year)		
	15	14	16+	13+	14	13+

Notes:

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

Refer to online 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: C3, C4, D1, D3, or D4.

† Course can be taken previously or concurrently.
[1]Students with an approved individualized course of study may substitute CSC/CPE 101 with CSC 231 (2 units) plus an additional 2 units of other advisor approved coursework.
[2] ME 350 or MATE 325, 326, 327, and 1 additional unit of an upper-division Technical Elective. If ME 236 is not taken, then contact ME Department for permission to enroll in ME 350.
[3]Refer to current catalog for course selection. Physical Science Electives total 8 units.
[4] ENGR 459, 460, 461 (6 units) or 6 units of Senior Project in appropriate engineering discipline.
* Refer to current catalog for prerequisites.
**Refer to online catalog for GE course selection, United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR).
*** Concentration form required and should be submitted prior to junior year. Concentration courses should total at least 40 units (a minimum of 33 units need to be 300-400 level).

Legend:

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

Major
Support
Concentration
General Ed.