

B.S. in GENERAL ENGINEERING  
(Individual Course of Study Concentration)  
Suggested 2-Year Academic Flowchart for Transfer Students Admitted Fall 2022

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.  
Updated 5/12/2022

		YEAR 1			YEAR 2		
		Fall	Winter	Spring	Fall	Winter	Spring
<div>Introduction to Engineering</div> <div>ENGR 110 (2)</div> <div>Transfer students should not take ENGR 110. Two units of an engineering intro course from a previous institution may substitute.</div> <div>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 additional quarter/s. Check your DPR to verify credit:</div> <div><div><div><input type="checkbox"/> MATH 141</div><div><input type="checkbox"/> MATH 142</div><div><input type="checkbox"/> MATH 143</div><div><input type="checkbox"/> MATH 241</div><div><input type="checkbox"/> MATH 244</div><div><input type="checkbox"/> PHYS 141</div><div><input type="checkbox"/> PHYS 132</div><div><input type="checkbox"/> PHYS 133</div><div><input type="checkbox"/> CHEM 124</div><div><input type="checkbox"/> CHEM 125</div><div><input type="checkbox"/> EE 201 &amp; 251</div><div><input type="checkbox"/> MATE 210 &amp; 215</div><div><input type="checkbox"/> ME 211</div><div><input type="checkbox"/> CPE 101<sup>1</sup></div><div><input type="checkbox"/> ENGL 149^ (A3) or any GE AREA A3</div><div><input type="checkbox"/> BIO 213 &amp; BMED 213 (B2)</div></div><div><div><input type="checkbox"/> GE AREA A1</div><div><input type="checkbox"/> GE AREA A2</div><div><input type="checkbox"/> GE AREA C1</div><div><input type="checkbox"/> GE AREA C2</div><div><input type="checkbox"/> GE AREA LOWER-DIVISION C ELECTIVE</div><div><input type="checkbox"/> GE AREA D1</div><div><input type="checkbox"/> GE AREA D2</div><div><input type="checkbox"/> GE AREA D Elective</div><div><input type="checkbox"/> GE AREA E</div></div></div>		<div>Intro. To Design &amp; Manufacturing</div> <div>IME 144 (4)</div>	<div>Thermodynamics I</div> <div>ME 302 (3)</div> <div>(ME 212 &amp; PHYS 132)</div>	<div>Fluid Mechanics I</div> <div>ME 341 (3)</div> <div>(MATH 242 or 244; ME 212)</div>	<div>Interdisciplinary Sr Design Project I</div> <div>ENGR 459 (2)<sup>4</sup></div> <div>(Sr. Standing)</div>	<div>Interdisciplinary Sr Design Project II</div> <div>ENGR 460 (2)<sup>4</sup></div> <div>(ENGR 459)</div>	<div>Interdisciplinary Sr Design Project III</div> <div>ENGR 461 (2)<sup>4</sup></div> <div>(ENGR 460)</div>
		<div>Engineering Dynamics</div> <div>ME 212 (3)</div> <div>(MATH 241; ME 211 or ARCE 211)</div>	<div>Mechanics of Materials I</div> <div>CE 204 (3)</div> <div>(ME 211)</div>	<div>Choose one: Engin. Economics IME 314 (3) (MATH 241) OR Financial Decision... IME 315 (3) (MATH 142)</div>	<div>Heat Transfer</div> <div>ME 343 (4)</div> <div>(formerly ME 350)</div> <div>(CPE/CSC 101 or CSC 231 or 234; ME 236 ; ME 302; ME 341)</div>	<div>Individual Course of Study</div> <div>(4)***</div>	<div>Individual Course of Study</div> <div>(4)***</div>
		<div>Math or Stat Elective</div> <div>MATH 344, STAT 312, or STAT 350</div> <div>(4)*</div> <div>[Upper-Division B]</div>	<div>Individual Course of Study</div> <div>(4)***</div>	<div>Individual Course of Study</div> <div>(2)***</div>	<div>Individual Course of Study</div> <div>(4)***</div>	<div>Individual Course of Study</div> <div>(4)***</div>	<div>Individual Course of Study</div> <div>(3)***</div>
		<div>Upper-Division C (4)**</div> <div>(combine with USCP requirement if still needed)</div>	<div>Physical Science Elective<sup>3</sup></div> <div>(4)*</div>	<div>Individual Course of Study</div> <div>(4)***</div>	<div>Individual Course of Study</div> <div>(3)***</div>	<div>Individual Course of Study</div> <div>(4)***</div>	<div>Individual Course of Study</div> <div>(4)***</div>
		<div>Graduation Writing Requirement GWR*</div> <div>(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 by enrolling in UNIV 401. GWR courses are searchable on Schedule Buildder).</div>					
		15	14	16	13+	14	13+

Notes:

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

<sup>1</sup>Students with an approved individualized course of study may substitute CSC 231 (2 units) plus an additional 2 units of other advisor approved coursework for CSC/CPE 101 (4units)

<sup>3</sup>Refer to your current catalog for course selection. Physical Science Electives total 8 units.

<sup>4</sup> ENGR 459, 460, 461 (6 units) or 6 units of Senior Project in appropriate engineering discipline.

\* Refer to your 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 ASAP. Concentration courses should total at least 40 units (a minimum of 33 units need to be 300-400 level).

^ENGL 149 has been discontinued. If this is still needed, take any GE A3

Legend:

Course Title		
Course # (Units)		Major
(Prerequisite)		Support
[GE Area]		Concentration
		General Ed.