

B.S. in MATERIALS ENGINEERING
Suggested 2-Year Academic Flowchart for Transfer Students

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 use as a tool in creating their own unique quarter by quarter graduation plan.
Updated 3/22/2023

			YEAR 1			YEAR 2		
			Fall	Winter	Spring	Fall	Winter	Spring
<div><div>Introduction to Materials Engineering Design I MATE 110 (1) ***</div><div>Introduction to Materials Engineering Design II MATE 120 (1) (MATE 110) ***</div></div> <p>***Talk to Department Chair about appropriate course substitution</p> <p>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 in an additional quarter/s. Check your DPR to verify credit:</p> <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 142</div><div><input type="checkbox"/> PHYS 143</div><div><input type="checkbox"/> CHEM 124</div><div><input type="checkbox"/> CHEM 125</div><div><input type="checkbox"/> MATE 210</div><div><input type="checkbox"/> MATE 215</div></div><div><div><input type="checkbox"/> EE 201</div><div><input type="checkbox"/> EE 251</div><div><input type="checkbox"/> ME 211</div><div><input type="checkbox"/> CE 204</div><div><input type="checkbox"/> GE AREA A1</div><div><input type="checkbox"/> GE AREA A2</div><div><input type="checkbox"/> GE AREA A3</div><div><input type="checkbox"/> GE AREA B2</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><div><div><input type="checkbox"/> GE AREA D1 Elective</div><div><input type="checkbox"/> GE AREA E</div><div><input type="checkbox"/> GE AREA F</div></div></div>	<div>Materials Laboratory II MATE 225 (1) (MATE 215, Concur: MATE 232)</div> <div>Materials, Ethics, and Society MATE 232 (4) (MATE 210)</div> <div>Electronic Materials Systems MATE 340 (4) (MATE 210 and PHYS 143)</div> <div>Introduction to Design & Manufacturing IME 144 (4)</div> <div>Choose One Series: [Upper-Div B] STAT 312 (4)* & IME 315 (3) (MATH 142) (MATH 142) OR STAT 321 (4)* & IME 315 (3) (MATH 142) (MATH 142) OR STAT 321 (4)* & IME 326 (4) (MATH 142) (STAT 321 w/ min C-)</div>		<div>Structural Materials Systems MATE 350 (4) (MATE 210, CE 204†)</div> <div>Materials Laboratory III MATE 235 (1) (MATE 225)</div> <div>Introduction to Materials Thermodynamics MATE 280 (4) (CHEM 125, PHYS 143, MATH 143, MATE 210 & 215)</div>	<div>Materials Engineering Analysis MATE 245 (1) (MATE 210 & MATE 235)</div> <div>Materials Selection Life Cycle MATE 300 (4) (MATE 210 and Junior Standing; fulfills GWR) [GWR]</div> <div>Junior Yr. Elective Choose from one of the following: CHEM 312; ENGR 334; IME 303; ITP 341; MATE 390; NR (4-5)</div> <div>Metallurgical Materials Systems MATE 360 (4) (MATE 235)</div> <div>any remaining support or GE not transferred in</div>	<div>Senior Project I MATE 482 (1)⁴ (Sr. Standing & MATE major)</div> <div>Kinetics of Materials & Process Design MATE 370 (4) (MATE 280 or 380)</div> <div>Composite Materials Sytems MATE 480 (4) (MATE 350)</div> <div>Technical Elective (4)^{1,2,3}</div> <div>Transport Phenomena I MATE 325 (1) (PHYS 142 and Math 141)</div>	<div>Senior Project II MATE 483 (2)⁴ (MATE 482)</div> <div>Noncrystalline Material Systems MATE 310 (4) (MATE 210 & 340)</div> <div>Approved Elective/ Technical Breadth Elective (4)^{1,2,3}</div> <div>Upper-Division C (4)** (Combine with USCP if have not taken yet)</div> <div>any remaining support or GE not transferred in</div>	<div>Senior Project III MATE 484 (2)⁴ (MATE 483)</div> <div>Technical Elective (4)^{1,2,3}</div> <div>Technical Elective (4)^{1,2,3}</div> <div>Approved Elective/ Technical Breadth Elective (4)^{1,2,3}</div>	
	13+		16-17		13+	14	14+	14

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 online catalog for GE course selection, United States Cultural Pluralism (USCP) & Graduation Writing Requirement (GWR).

USCP requirement can be satisfied by some (but not all) courses within GE categories: C1, Upper-Division C, D1, D Elective, or E.

† Course can be taken previously or concurrently.

¹ Refer to your catalog for course selection options; Consultation with a faculty advisor is recommended prior to selecting Technial or Approved Electives; bear in mind your selecitons may impact pursuit of post-baccalaureate studies and/or goals.

² If a course is taken to meet this requirement, it cannot be double-counted to satisfy another major or support requirement.

³ 8 units maximum of MATE 400 and/or MATE 500 may count towards Technical Electives or Approved Electives/Technical Breadth Electives.

⁴ ENGR 459, ENGR 460, and ENGR 461 (6) may substitute for MATE 482, MATE 483, and MATE 484 (5) with the one excess unit counting towards Technical Electives.

Legend:

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