B.S. in MATERIALS ENGINEERING

Suggested 2-Year Academic Flowchart for Transfer Students Admitted Fall 2023

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 4/18/23		YEAR 1			YEAR 2		
		Fall	Winter	Spring	Fall	Winter	Spring
Introduction to Materials Engineering Design I MATE 110 (1) *** Introduction to Materials Engineering Design II MATE 120 (1) (MATE 110) ****		Materials Laboratory II MATE 225 (1) (MATE 215. Concur: MATE 232)	Structural Materials Systems MATE 350 (4) (MATE 210, CE 204†)	Materials Engineering Analysis MATE 245 (1) Formerly MATE 130 (MATE 210 & MATE 235)	Senior Project I MATE 482 (1) (Sr. Standing & MATE major)	Senior Project II MATE 483 (2) (MATE 482)	Senior Project III MATE 484 (2) (MATE 483)
***Talk to Department Chair about appropi substitution	ate course	Materials, Ethics, and Society MATE 232 (4) (MATE 210)	Materials Laboratory III MATE 235 (1)	Materials Selection Life Cycle MATE 300 (4) Formerly MATE 320 (MATE 210 and Junior Standing; fulfills GWR)	Kinetics of Materials & Process Design MATE 370 (4) (MATE 280 or 380)	Noncrystalline Material Systems MATE 310 (4) (MATE 210 & 340)	Technical Elective
This Transfer Student Flowchart assumes er for the courses below have been transferred Anything not transferred in needs to be add flowchart, which may result in an additonal Check your DPR to verify credit:	to Cal Poly. ded to this quarter/s.	Electronic Materials Systems MATE 340 (4) (MATE 210 and PHYS 133)	Introduction to Materials Thermodynamics MATE 280 (4) (CHEM 125, PHYS 133, MATH 143, MATE 210 & 215)	Junior Yr. Elective# Choose from one of the following: CHEM 312; ENGR 334; IME 303; ITP 341; MATE 390; NR 434 (4-5)*	Composite Materials Sytems MATE 480 (4) (MATE 350)	Approved Elective/ Technical Breadth Elective	Technical Elective
	E AREA D1			Metallurgical		Upper-Division	Approved
□ MATH 143 □ ME 211 □ GI □ MATH 241 □ CE 204	E AREA D E AREA D CTIVE E AREA E	Introduction to Desig		Materials Systems MATE 360 (4) (MATE 235)	Technical Elective (4)^	(Combine with USCP if have not taken yet)	Elective/ Technical Breadth Elective
□ PHYS 141 □ GE AREA A1 □ PHYS 132/142 □ GE AREA A2 □ PHYS 133/143 □ GE AREA B2 □ CHEM 124 □ GE AREA C1 □ CHEM 125 □ GE AREA C2		(MATH 142)	& IME 315 (3) (MATH 142) R & IME 315 (3) (MATH 142)	any remaining support or GE not transferred in	Transport Phenomena I MATE 325 (1) (PHYS 132 and Math 141)	any remaining support or GE not transferred in	
☐ MATE 215 ☐ GE AREA C2 ☐ MATE 215 ☐ LOWER- ☐ MATE 215 ☐ DIVISION C ELECTIVE			,		E		
		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, D2, D Elective, or E.
- † Course can be taken previously or concurrently.
- ^ Refer to your catalog for course selection options
- # Junior year elective replaces CSC 231 and MATE 326 & 327 in the 20-21 catalog
- ⁸ENGL 149 has been discontinued. If this is still needed, take any GE A3

Legend:

