CAL POLY
Student Services
COLLEGE OF ENGINEERING

MATERIALS ENGINEERING

2026-2028 Semester Catalog

THIS IS AN UNOFFICIAL EXAMPLE

Fall 2026 Transfer Flowchart

2-Year Semester

TOTAL SEMESTER UNITS REQUIRED : 125-127

Catalog Notes & Suggestions

Below is an example of a pathway for a transfer student who is **on the Semester Catalog**.

NOTE ABOUT TRANSFER CREDIT

Below is a list of courses that you may have transfer credit for. Anything not transferred, needs to be added to your graduation plan, which may result in additional terms.

POTENTIAL CAL POLY EQUIVALENT TRANSFER CREDIT

Intro to Materials Engineering **MATE 1110 (1)**	*MATE Transfer Students with Additional STEM transfer college coursework should submit a Petition for Major or Support Course Substitution/Exception - Undergraduate (E-Form) to earn credit for MATE 1110.*		
Principles of Materials Engineering for Majors **MATE 1210 (3)** *	Materials Laboratory I **MATE 1215 (1)** *		
Fundamentals of Chemical Structure and Properties **CHEM 1120 (4)** [GE 5A & 5C]	Fundamentals of Chemical Reactivity **CHEM 1122 (4)** -or- Organic Chemistry: Fundamentals & Applications **CHEM 2240 (4)** *	Electric Circuits for Non-Majors **EE 2201 (2) & EE 2241 (1)** MATH 1262 Co-req PHYS 1143	Critical Thinking for Technical Writers **ENGL 1148 (3)** * [GE 1B]
Engineering Statics **ME 2210 (2)** MATH 1262 and PHYS 1141 ME 2210 + ME 2204 = ENGR 2211	Calculus I **MATH 1261 (4)** * [GE 2]	Calculus II **MATH 1262 (4)** MATH 1261 with C- or better	Linear Analysis **MATH 2341 (4)** MATH 1262, MATH 1263, or MATH 1265
General Physics I **PHYS 1141 (4)** Co-req: MATH 1261	General Physics II **PHYS 1143 (4)** PHYS 1141 Co-req: MATH 1262	Written Communication **GE 1A (3)** *	Oral Communication **GE 1C (3)** *
Arts **GE 3A (3)** *	Humanities: Literature, Philosophy, and Languages other than English **GE 3B (3)** *	American Institutions **GE 4A (3)** Area 4 courses must come from at least two different prefixes *	Social and Behavioral Science **GE 4B (3)** Area 4 courses must come from at least two different prefixes *
Life Sciences **GE 5B (3)** *	Ethnic Studies **GE 6 (3)** *		

Anything not transferred, needs to be added to your plan on the right, which may result in additional terms.

UNITS

YEAR ONE | 2026-2027

FALL	SPRING
Materials Microscopy Laboratory **MATE 2225 (1)** MATE 1215	Materials Spectroscopy Laboratory **MATE 2235 (1)** MATE 1215
Engineering Analysis and Technical Communication **MATE 2245 (1)** MATE 1210 or MATE 1220, and MATE 1215	Materials Ethics, Diversity, and Society **MATE 3232 (3)** * [GE UD 4]
Materials Thermodynamics and Kinetics **MATE 2280 (4)** MATE 1210 or MATE 1220; MATH 1262; and PHYS 1141	Polymeric Material Systems **MATE 3310 (4)** MATE 1210 or MATE 1220; and CHEM 1122 or CHEM 2240
Electronic Materials Systems **MATE 3340 (4)** MATE 1210 or 1220; and EE 2201 or 2211	Metallurgical Materials Systems **MATE 3360 (4)** MATE 1210 or MATE 1220; and MATE 2225
Introduction to Mechanics of Materials **ME 2204 (2)** Consent of Instructor [ME 2210 + ME 2204 = ENGR 2211]	Advanced Materials Characterization **MATE 3401 (1)** MATE 1210 or MATE 1220 Rec: MATE 1215
Technical Graphics Communication for Design and Manufacturing **IME 1140 (1)**	Computational Materials Engineering **MATE 3403 (2)** MATE 1210 or MATE 1220; and MATE 2280
Engineering Statistics **STAT 3210 (3)** MATH 1261; Completion of GE Area 1 and Area 2 w/ C- grades [GE UD 2/5]	
16 SEM.	**15 SEM.**

YEAR TWO | 2027-2028

FALL	SPRING
Senior Project I **MATE 4461 (1)** Senior Standing and MATE major	Senior Project II **MATE 4462 (2)** MATE 4461
Composite Material Systems **MATE 3480 (4)** Junior standing; and MATE 1210 or MATE 1220	Design Elective: **IME 3326 (4)** STAT 3210 **or** **ME 3234 (3)** *
Materials Selection for the Life Cycle **MATE 4300 (3)** Junior standing; and MATE 1210 or MATE 1220 Rec: MATE 1215 [GWR]	**Technical Elective (3)** *
Ceramic and Glass Materials Systems **MATE 4422 (3)** MATE 1210 or MATE 1220	**Technical Elective (3)** *
Materials Joining **IME 1142 (1)**	**Professional Development Elective (3-4)** *
Upper-Division Area 3: Arts & Humanities **GE UD 3 (3)** *	
15 SEM.	**14-16 SEM.**

Please Note: *These flowcharts are an example and not a template of your individualized plan. You will need to consult the Catalog and Degree Progress Report for detailed information about what you need to graduate. Engineering Student Services is available for assistance in this process.*

*Refer to current catalog for course requirements

Course Color Key

MAJOR	GE
SUPPORT	CONCENTRATION

Additional Requirements

Click the links below to learn more about how to complete these requirements before graduation.

- ☐ **U.S. CULTURAL PLURISM** (USCP)
- ☐ **GRADUATION WRITING REQ.** (GWR)