



2020 Suggested Courses for Materials Engineering (MATE) 2020 – 2021 Catalog

1) Major course options:

- **May already be fulfilled with transfer credit; check prerequisites**
- If you do not have credit for MATE 210 and MATE 215, then take:
 - MATE 210 (3)* & 215 (1)*: Materials Engineering and Lab I
 - MATE 232 (4)*: Materials, Ethics, and Society
 - MATE 225 (1)*: Material Lab II
 - Contact Dr. Harding at tharding@calpoly.edu to get a permission number to take MATE 232 and 225 concurrently with MATE 210/215
- If you have credit for MATE 210 and MATE 215, then take:
 - MATE 340 (4)*: Electronic Materials Systems
 - MATE 232 (4)*: Materials, Ethics, and Society
 - MATE 225 (1)*: Material Lab II
- Transfer students should NOT take MATE 110 and 120. Instead, substitute two unused units from your previous college or Cal Poly. Paperwork will be required. See Engineering Student Services or your Department Chair for assistance.
- Transfer students should take MATE 130 in Spring of their first year.
- It is recommended that students meet with the MATE Department Chair (Dr. Harding) to create your graduation plan.
- Most MATE courses are only offered once a year; for planning purposes, refer to [terms typically offered](#) for the term(s) MATE courses are typically offered.

2) Support course options:

- **May already be fulfilled with transfer credit; check prerequisites**
- EE 201 (3) & EE 251 (1): Electric Circuit Theory and Laboratory
- IME 144 (4): Introduction to Design and Manufacturing
- ME 211 (3): Engineering Statics
or CE 204 (3): Mechanics of Materials
- Either:
 - IME 315 (3): Financial Decision Making for Engineers
and STAT 312 (4): Statistical Methods for Engineers or STAT 321 (4): Probability & Statistics for Engineers & Scientists
 - IME 326 (4): Engineering Test Design & Analysis
and STAT 321 (4) Probability & Statistics for Engineers & Scientists
- CSC 231 (2): Programming for Engineering Students
- MATE 325 (1): Transport Phenomena I

***Course is required or strongly recommended in fall due to course availability or prerequisites**

^Course should be taken as soon as possible

3) General Education (GE) course options:

- **May already be fulfilled with transfer credit; check prerequisites**
- Any remaining lower division GE course(s)
- Upper-Division C
- The [Graduation Writing Requirement \(GWR\)](#) 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 registering for the Writing Proficiency Examination (WPE). GWR courses are searchable on Schedule Builder.
- The [United States Cultural Pluralism \(USCP\)](#) requirement must be satisfied before graduation. USCP courses may double-count with a remaining GE requirement and are searchable on Schedule Builder.
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4) Additional notes:

- Recommended that you enroll in 12 – 16 units
- Pay close attention to course sequencing on your flowchart to help you prioritize which courses may be most important to take first based on prerequisites for future courses.

5) Engineering Student Services:

Engineering Advising | Multicultural Engineering Program | International Exchange Program

Location: Building 40, Room 115

Phone: 805-756-1461

[Email](#)

[Website](#)

6) MATE Department:

Location: Building 41A, Room 229

Phone: 805-756-2568

[Email](#)

[Website](#)