Fall 2022 Suggested Courses for Mechanical Engineering (ME)

1. High-priority courses for Fall 2022:
   These courses are recommended for Fall 2022 for your major.
   These requirements may already be fulfilled with transfer credit.
   You may not be eligible for these courses yet due to prerequisites. Check current requisites in the 2022-26 Catalog.

   • ME 228 (2)*: Engineering Design Communication
     or ME 251 (2)*: Intro to Solid Modeling
     o If you have transfer credit for ME 228 you should enroll in ME 251. Note that in ME 251, you will use Solidworks as the CAD software. You should familiarize yourself with Solidworks. Once you have your Cal Poly ID, you can access Solidworks by using Cal Poly ITS Virtual Computer Labs.
     o If you didn’t take a course articulated to ME 228, you may still be able to get credit for it if you took at least a 2 quarter unit college level CAD course using SolidWorks and can complete an assignment that shows proficiency in GDT, geometric dimensioning, and tolerancing. More information about this option will be emailed to you in mid-July with details on the assignment.
   • ME 263 (1)*: Intro to Mechanical Engineering for Transfers (not offered in Winter)
   • ME 264 (1)*: Intro to Mechanical Engineering for Transfers Lab (not offered in Winter; take with ME 263)
   • ME 211 (3): Engineering Statics
     or ME 212 (3): Engineering Dynamics
   • CE 204 (3) Mechanics of Materials I
     or CE 207 (2): Mechanics of Materials II
     o If you have taken equivalent to CE 204 but not CE 207, enroll in CE 207.
     o If you still need CE 204 and CE 207, you can take them separately over two quarters or enroll in a CE 208 (5) combo course fall quarter to expedite the sequence
   • ME 234 (3): Philosophy of Design
   • MATE 210 (3) & MATE 215 (1): Materials Engineering

2. Mid-priority courses for Fall 2022:
   These courses are not required for Fall 2022 but are recommended to take sooner than later.
   These requirements may already be fulfilled with transfer credit.
   You may not be eligible for these courses yet due to prerequisites. Check current requisites in the 2022-26 Catalog.

   • MATH 344 (4): Linear Analysis II
   • CSC 231 (2): Programming for Engineering Students
   • EE 201 (3) & EE 251 (1): Electric Circuit Theory and Laboratory
or EE 321 (3) & 361 (1): Electronics & Laboratory
• ME 236 (3): Measurement & Data Analysis
• ME 302 (3): Thermodynamics I
• ME 341 (3): Fluid Mechanics I
• IME 141 (1): Manufacturing Processes: Net Shape or ME 161: Intro to Composite Materials Manufacturing
• IME 142 (2): Manufacturing Processes: Materials Joining
• IME 143 (2): Manufacturing Processes: Materials Removal (transfer students take IME 143 instead of IME 145 & 146)

3. Low-priority courses for Fall 2022:
These are additional course options for Fall 2022, if you need additional units.
These requirements may already be fulfilled with transfer credit. You may not be eligible for these courses yet due to prerequisites. Check current requisites in the 2022-26 Catalog.

• Any remaining lower division GE course(s).
• Any GE B2 (4) (replaces BIO 213 (2) & BMED 213 (2) requirement)
• Upper-Division C.

4. General degree requirement notes:
• The Graduation Writing Requirement (GWR) must be fulfilled before graduation by either:
  1. Enrolling in a GWR-approved, upper-division English course, which can double-count with the Upper-Division C.
  2. Or enrolling in UNIV 401: GWR Portfolio. Do not take this course in Fall 2022; take it after you complete the Upper-Division C GE.
• 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.

5. Additional notes:
• As you plan, pay close attention to the prerequisites for ME 328. You cannot graduate earlier than 5 quarters from when you take ME 328. The prerequisites for ME 328 are: BMED 212 or ME 234; CE 207 or CE 208; MATE 210; and ME 212. Corequisite: CPE/CSC 101 or CSC 231 or CSC 234; ME 251.
• Recommended that you enroll in 12 – 16 units in Fall 2022.
• Transfer students take ME 228, 263, and 264 instead of ME 128, 129, 130, and 163 and IME 143 instead of IME 145/146.
• Concentrations: we encourage you to declare your concentration during your first year Concentration options for your major Instructions for declaring your concentration
• For planning purposes, refer to the Terms Typically Offered Website for the term(s) courses are typically offered.
• Most transfer students admitted in Fall 2022 will follow the 20-21 catalog due to changes on the newest catalog that require additional coursework. You can change your catalog year through the Registrar’s Office, if you wish. We recommend meeting with an advisor before changing your catalog.
• You may need a permission number to enroll in a course. Permission numbers are unique codes departments or class instructors may choose to issue. The code allows you to enroll in a class that the system is preventing you from enrolling in.
  o If needed, start the permission number request process by going to the following link and click on "Pre-requisite Course Waiver Form": https://me.calpoly.edu/forms
    ▪ List jwidmann@calpoly.edu as the instructor on the form.

6. Engineering Student Services (ESS):
   Engineering Advising | Multicultural Engineering Program | International Exchange Program
   Location: Building 40, Room 115
   Phone: 805-756-1461
   ESS Email: eadvise@calpoly.edu
   ESS Website

7. ME Department:
   Location: Building 13, Room 254
   Phone number: 805-756-1334
   ME Email: me-dept@calpoly.edu
   ME Website