2021 Suggested Courses for
General Engineering (GENE) 2020 – 2021 Catalog

1) Major course options:
   • May already be fulfilled with transfer credit; check prerequisites
   • ME 211 (3)^: Engineering Statics
     or ME 212 (3)^: Engineering Dynamics
     or ME 302 (3): Thermodynamics I
     or/and ME 341 (3): Fluid Mechanics I
   • CE 204 (3)*: Mechanics of Materials I
     or CE 207 (2)*: Mechanics of Materials II (this course is required for the General Curriculum Concentration; see notes below).
   • EE 201 (3) & EE 251 (1): Electric Circuit Theory and Laboratory
   • MATE 210 (3) & MATE 215 (1): Materials Engineering and Materials Laboratory I
   • CPE/CSC 101 (4): Fundamentals of Computer Science I
   • IME 144 (4): Introduction to Design and Manufacturing
   • IME 314 (3): Engineering Economics
     or IME 315 (3): Financial Decision Making for Engineers

2) Support course options:
   • May already be fulfilled with transfer credit; check prerequisites
   • MATH 344 (4): Linear Analysis II
     or STAT 312 (4): Statistical Methods for Engineers
     or STAT 350 (4): Probability and Random Processes for Engineers
   • BIO 213 (2) & BMED 213 (2): Life Science for Engineers & Bioengineering Fundamentals
   • ENGL 147 (4): Writing Arguments about STEM (ENGL 147 replaced ENGL 149)
   • Physical Science Electives

*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 completing the GWR Portfolio (currently for students in graduating quarter only). 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.
4) Additional notes:

- Recommended that you enroll in 12 – 16 units.
- All transfer students admitted in fall 2021 will follow the 20-21 catalog due to changes on the 21-22 catalog that may 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.
- **Transfer students should not take ENGR 110.** Two units of an engineering introduction course from a previous institution may substitute for ENGR 110; talk to the GENE Director about an appropriate substitution. For the Individualized Course of Study (ICS) Concentration, the substitution must be noted on your ICS form. For the General Curriculum, a course substitution petition is required (available at Engineering Student Services).
- **You may need a permission number to enroll in a course.** Permission numbers are unique codes departments or class instructors may choose to issue so you can enroll in a class that the system is preventing you from enrolling in on your own. For assistance with permission numbers, select the link above, email the department that offers the course you want and copy the GENE Department Director on the email.
- Meet with the GENE Director (who also serves as your faculty advisor) to discuss your concentration choice during fall quarter and to guide your future course selection.
- Concentrations: All GENE students are automatically placed under the **General Curriculum Concentration** but if the Individualized Course of Study (ICS) is preferred, you will need to complete the **Individualized Course of Study form**.

**Concentration course options (General Curriculum Only):**

- CE 204 (3)*: Mechanics of Materials I
  - or CE 207 (2)*: Mechanics of Materials II
    - If you have taken equivalent to CE 204 but not CE 207, enroll in CE 207.
    - If you still need CE 204 and CE 207, you can take them separately over two quarters OR enroll in CE 208 (5): Mechanics of Materials, which is designed specifically for transfers students this fall quarter. This course combines CE 204 and CE 207.
- CPE/EE 133 (4): Digital Design
- CSC 202 (4): Data Structures
- EE 321 (3) & EE 361 (1): Electronics and Laboratory

5) **Engineering Student Services:**
   Engineering Advising | Multicultural Engineering Program | International Exchange Program
Location: Building 40, Room 115
Phone: 805-756-1461 (not monitored during COVID-19 office closure)
Email
Website

6) **GENE Department:**
Location: Building 13, Room 263
Phone: 805-756-6339
Email
Website