2020 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
   - 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
   - Physical Science Electives

Concentration course options (General Curriculum Only):
   - 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 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

*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).
   • GE C4
   • 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.

4) Additional notes:
   • Recommended that you enroll in 12 – 16 units.
   • 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).
   • Meet with the GENE Director (who also serves your faculty advisor) to discuss your concentration choice during fall quarter and to guide your future course selection.
   • Concentrations: we encourage you to declare your concentration during your first year.
     Concentration options for your major
     Instructions for declaring your concentration

5) Engineering Student Services:
   Engineering Advising | Multicultural Engineering Program | International Exchange Program
   Location: Building 40, Room 115
   Phone: 805-756-1461
   Email
   Website

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