

SAN LUIS OBISPO

Updated 9/1/2022 SOPHOMORE FRESHMAN JUNIOR SENIOR Winter hilosophy of Design Design for Strength & Stiffness ME 234 (3) (Soph Star ME 128^ (1) ME 129^ (1) ME 130^ (1) ME 448 (4) ME 328 (4) ME 128; 2nd quart ME 129; 3rd quarte Concur: ME 163) Measurement & Engineering Data Analysis (BMED 212 or ME 234; CE 207 or 208; MATE 210; ME 212. Corea: CPE/CSC 101, CSC 231, or 234; ME 251) ME 236 (3) (Recom: CHEM 125, GE Area A3, & PHYS 142 Orientation to MF ME 163^ (1) Thermodynamics II **Enaineerina** Thermodynamics I ngineering Statics ME 303 (3) (ME 302 ME 302 (3) (ME 212; PHYS 142 (Concur: MF 128) ME 211 (3) ME 212 (3) Fluid Mechanics i Mechanical Systems Design Sub. Manuf. I TH 241†, PHYS : or 141) ATH 241; ME 21 or ARCE 211) IME 145^ (1) IME 146^ (1) ME 341 (3) (MATH 242 or 244; ME 212 ME 329 (4) (ME 328) General Curriculum (Concur: ME 129) Intro to Detailed Fluid Mechanics 1 Senior Design Project I, II, and III ME 347 (4) Desian ME 428 (2)1 ME 429 (2)1 ME 430 (2)1 ME 251 (2) IME 142 (2) ME 343 or ME 350: IM Heat Transfe ME 130 or 228 Reco MATE & Laboratory IME 143 or 146) MATE 210 (3) & MATE 215 (1) ME 343 (4) (MF 428) (MF 429) IME 146, ME 161, or ITI IME 141 (1) OR ITP 341 (4) OR ME 161 (2) (CPE/CSC 101, CSC 231, or 234 ME 236, 302, & 341 General Curriculum Calculus Calculus II Calculus III Calculus IV I inear Analysis ME 326 (4) ME 418 or 419 (4) MATH 141 (4) MATH 142 (4) MATH 143 (4) MATH 241 (4) MATH 244 (4) Instr. Consent) Instr. Consent) (MATH 143) (MATH 143) General Curriculum General Curriculum **FB41** [B41 [Add'l Area B] Technical Electiv Technical Elective Mechanics of Mechanics of Introduction to General Physics I General Physics II General Physics III Linear Analysis II Mechanical Vibrations  $(3-4)^3$  $(4)^{3}$ Materials I Materials II System Dynamics PHYS 141 (4) CE 204 (3)2 CE 207 (2)2 ME 322 (4) \*\*\* \*\*\* PHYS 142 (4) PHYS 143 (4) MATH 344 (4) ME 318 (4) CPE/CSC 101, CSC 231 or 234; EE 201; EE 251; (ME 212; MATH 344. Recom: EE 201) PHYS 141: MATH 142 PHYS 141: MATH 142 (ME 211) Recom: MATH 241) or 182) ME 318: ME 341) [Add'l Area B] [Upper-Div B] General Curriculum Technical Elective Gen. Chem. For Gen. Chem. For Electric Circuit Theory Electronics & nming for Engin. Stud CSC 231 (2) Phys Sci & Phys Sci & & Lab Electronics Lab  $(4)^{3}$ Engineering II Engineering I (MATH 142; PHYS 12: EE 201 (3) EE 321 (3) CHEM 124 (4) CHEM 125 (4) EE 251 (1) EE 361 (1) C & Unix (CHEM 124) CSC 234 (3) (MATH 244: PHYS 143) (EE 201; EE 251) Oral Communication COMS 101 or 102 (4)\*\* [A1] GE (4) GE (4) GE (4) GE (4) Expository Writing ENGL 133 or 134 (4)\*\* [A2] GE (4) Graduation Writing Requirement GWR\* GE (4)4 GE (4) GE (4) Reasoning, Argumentation, & Writing [A3 Rec: ECON 201 (Students can attempt to fulfill the requirement after 90 earned units; students should GE (4) COMS 126, 145, ENGL 145, 147, ES 145, PHIL 126, or WGQS 145 (4)\*\* Rec: STS Minor \*\* complete the requirement before senior year) Courses 13-16 18 17 15-16 16 15 17-18 14 18 18 TOTAL: 196-201 Notes: Legend: MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET Course Title Major (80-81) \* Refer to current catalog for prerequisites. Course # (Units) (Prerequisite) Support (68-72)

\*\* One course from each of the following GE areas must be completed: A1, A2, A3, B2, C1, C2, Lower-Division C Elective, Upper-Division C, D1, Area D Elective, Lower-Division E, and F. Upper-Division C should be taken only after Junior standing is reached (90 units).

Refer to online catalog for GE course selection, United States Cultural Pluralism (USCP) and Graduation Writing Requirement (GWR).

USCP requirement can be satisfied by some (but not all) courses within GE categories: C1, Upper-Division C, D1, D2, Upper-Division D, or E.

\*\*\* Refer to current catalog for course selection. Consultation with advisor is recommended prior to selecting Technical Electives. Note that 300-level Technical Electives cannot be used for graduate credit in the blended BS + MS Mechanical Engineering program. ME 470, ME 471, ME 570 and ME 571 are variable topics courses, and may or may not count as ME Electives. Please contact instructor for additional information. A course substitution form may be required. ME 400 and ME 500 are independent study classes and may be acceptable for Technical Elective credit. A course substitution form is required.

- † Course can be taken previously or concurrently.
- ^ Transfer students and change of major students take ME 228, 263, & 264 in lieu of ME 128, 129, 130, and 163; and IME 143 in lieu of IME 145 and 146.
- <sup>1</sup> ENGR 459, 460, and 461 (6 units) or ENGR 463, 464, and 465 (6) may substitute for ME 428, ME 429, and ME 430 (6).
- <sup>2</sup> CE 208 may be taken in place of CE 204 and CE 207.
- <sup>3</sup> ME 400 and ME 500 are independent study classes and may be acceptable for Technical Elective credit. A course substitution form is required.
- <sup>4</sup> The ME Department recommends the following courses that examine topics related to engineering, science, technology, and society: PHIL 322, PHIL 323, PHIL 329, PHI

340, ISLA 303. Completion of these courses contribute to the Science, Technology, and Society Minor and meet GE requirements for upper division C.

UNLESS A CONCENTRATION IS DECLARED, THE DEFAULT WILL BE GENERAL CURRICULUM IN MECHANICAL ENGINEERING.

General Ed. (48)

[GE Area]