

| Updated 5/24/2018 | |
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| Updated 5/24/2018 | | | | 00011011005 | | | | | | 051405 | |
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| | FRESHMAN | | SOPHOMORE | | JUNIOR | | | SENIOR | | | |
| Fall | Winter | Spring | Fall | Winter | Spring | Fall | Winter | Spring | Fall | Winter | Spring |
| Intro. to ME I ME 128^ (1) (1st qtr freshman | Intro to ME II ME 129^ (1) (ME 128) | Introduction to ME III | Engineering Statics | Engineering Dynamics | Philosophy of Design | Intermediate Dynamics | Design for Strength & Stiffness | Mechanical Systems Design | Mechanical Control Systems | | Thermal System Design |
| year. Concur: ME 163) | (ME 128) | ME 130^ (1) | ME 211 (3) | ME 212 (3) | ME 234 (3) | ME 326 (4) | ME 328 (4) (BMED 212 or ME 234; | ME 329 (4) | ME 422 (4) | | ME 420 (4) |
| Orientation to ME ME 163^ (1) (Concur: ME 128) | | (ME 129, 3rd quarter) | (MATH 241 ⁺ , PHYS 131 or 141) | (MATH 241; ME 211 or ARCE 211) | (Soph standing) | (ME 212; CSC 231 or 234, MATH 244 ⁺) | CE 207; CSC 231 or 234; MATE 210; ME 212 & 251. IME 141† or ITP 341†) | (ME 328) | (ME 318) | Take concurrently:Life Science for Eng | (ME 303; ME 347; & ME 343 or 350) |
| Manufacturing Processes: Materials Joining IME 142 (2) | | Intro to Detailed Design w/ Solid | Measurement & Engineering Data | MATE & Laboratory I MATE 210 (3) | Thermodynamics I | Thermodynamics II | Heat Transfer | | BIO 213 (2) (MATH 142. Recom: CHEM 124) 8. | | |
| Manufact | Manufacturing Processes: Material Removal IME 143 (2) | | Modeling ME 251 (2) | Analysis ME 236 (3) | MATE 210 (3) & MATE 215 (1) | ME 302 (3) | ME 303 (3) | ME 350 (4) (CPE/CSC 101 or CSC | | Bioeng Fundamentals BMED 213 (2) | |
| | Manuf. Processes Elective IME 141 (1) OR ITP 341 (4)* | | (ME 130 or 228. Recom: IME 143) | (Recom: CHEM 125, ENGL 149, & PHYS 132) | (CHEM 111, 124, or 127. Rec: Conc MATE 215) | (ME 212 & PHYS 132) | (ME 302) | 231 or 234; MATE 360 & 380, or ME 236 & 302 & 341) | | (MATH 142. Recom: CHEM 124) [B2] | |
| Calculus I | Calculus II | Calculus III | Calculus IV | Linear Analysis I | Linear Analysis II | Fluid Mechanics I | Fluid Mechanics II | Mechanical Vibrations | Senior Design Project I | Senior Design Project II | Senior Design Project III |
| MATH 141 (4) | MATH 142 (4) | MATH 143 (4) | MATH 241 (4) | MATH 244 (4) | MATH 344 (4) | ME 341 (3) | ME 347 (4) | ME 318 (4) | ME 428 (2) ¹ | ME 429 (2) ¹ | ME 430 (2) ¹ |
| * | (MATH 141 w/min C-) | (MATH 142 w/min C-) | | | (MATH 206 & 242; or | (MATH 242 or 244; ME | (ME 236, ME 341, ME | (ME 326, MATH 344. | (ME 329. Coreq: ME | | |
| [B1] | [B1] | [Add'l Area B] | (MATH 143) | (MATH 143) | 241 & 244) [B6] | 212) | 302 or Instr. consent) | Recom: EE 201) | 318 & 350) | (ME 428) | (ME 429) |
| | Select one: General Physics PHYS 131 (4) OR PHYS 141 (4) * [Add'l Area B] | General Physics II PHYS 132 (4) (PHYS 131 or HNRS 131 or PHYS 141) | General Physics III PHYS 133 (4) (PHYS 131, 141, or HNRS 131; MATH 142. Recom: MATH 241) | Mechanics of Materials I CE 204 (3) (ME 211) | Mechanics of Materials II CE 207 (2) (CE 204) | Electric Circuit Theory and Lab EE 201 (3) & EE 251 (1) (MATH 244, PHYS 133) | Electronics and Electronics Lab EE 321 (3) & EE 361 (1) (EE 201, EE 251) | Energy Conversion Electromagnetics & Lab EE 255 (3) and EE 295 (1) (EE 212 & 242 or EE 201 & 251) | Technical Elective (3-4) *** | Technical Elective (4) *** | Technical Elective (4) *** |
| | | Gen. Chem. For Phys Sci & Engineering I CHEM 124 (4) * [B3/B4] | Gen. Chem. For Phys Sci & Engineering II CHEM 125 (4) (CHEM 124) | Select one: Programming for Engin. Stud. CSC 231 (2) (MATH 142; PHYS 121, 131, or 141) OR C & Unix CSC 234 (3) | | | | | | GE (4) ** | GE (4) ** |
| | Expository Writing ENGL 133 or 134 (4)** [A1] Can be taken anytime during Freshman Year | | | (MATH 142) | GE (4) | GE (4) | | | GE (4) | GE (4) | GE (4) |
| Oral Communication COMS 101 or 102 (4)** [A2] Can be taken anytime during Freshman Year | | | | ** | Rec: ECON 201 | | | ** | ** | ** | |
| GE (4) ** | GE (4) (Completion of GE A1 with a C- or be | | | ENGL 149 (4) [A3] better, Recom: Completion of GE A2) Freshman and Winter of Sophomore Years | | Graduation Writing Requirement GWR* (Students can attempt to fulfill the requirement after 90 earned units; students should complete the requirement before senior year) | | | | | |
| 16 | 16-19 | 17 | 17 | 15-16 | 17 | 18 | 15 | 16 | 13-14 | 18 | 18 |
| | | | | | | | | | | TOTAL: | 196-201 |
| | | | | | | | | | | IUTAL. | 130-201 |

Notes:

MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET * Refer to current catalog for prerequisites.

** One course from each of the following GE areas must be completed: A1, A2, C1, C2, C3, C4, D1, D2, D3, D4. C4 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: C3, C4, D1, D3, or D4.

*** Refer to current catalog for course selection. 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. ME 400 and ME 500 are independent study classes and may be acceptable for technical elective credit. A course substitution form is required. Exceptions to this policy are possible through consultation with the department chair. ⁺ Course can be taken previously or concurrently.

^ Transfer students take ME 228 & 229 in lieu of ME 128, 129, 130 and 163

1 ENGR 459, ENGR 460, and ENGR 461 (6 units) may substitute for ME 428, ME 429, and ME 430 (6 units).



