

Updated 6/27/2019

FRESHMAN SOPHOMORE JUNIOR SENIOR Winter Choose One: Digital Electronics Analog Flectronics 8 Introduction to **Energy Conversion** Semiconductor Fundamentals of Electric Circuit Electric Circuit Analysis ectronic Design Electric Circuit Device Flectronics Integrated Circuits Technical Technical Flectrical Electromagnetics & & Integrated Computer Science Analysis II & Lab III & Lab Lab Analysis I & Lab Circuits & Lab ingineering & Lab & Lab & Lab Elective Elective Lab EE 111 (1) & CSC/CPE 101 (4) EE 113 (3) & EE 211 (3) & EE 212 (3) & EE 255 (3) & EE 306 (3) & EE 307 (3) & EE 308 (3) & EE 409 (3) & $(4)^{2}$ $(3)^{2}$ EE 295 (1) EE 346 (1) EE 449 (1) EE 151 (1) EE 241 (1) EE 242 (1) EE 347 (1) EE 348 (1) EE 143 (1) MATH 142. Recom: FF FE 112 or FE 113: FE 15 CPE/EE 133: EE 306: F 212 & 242: or FF 201 *** *** (MATH 244, EE 211, 241) E 302 & 342: 307 & 347 111, 151, PHYS 133) MATH 244† or PHYS 133* 346: CPE/EE 233†) Choose one: Computer Design & Discrete Time Choose One Series¹ Analysis I Continuous-Time Classical Control Microcontroller-Senior Project Calculus I Calculus II Digital Design Assembly Language ianals & Systems EE 112 (2) Signals & Systems Systems & Lab Based Systems Preparation Programming & Lab EE 461 (2) EE 462 (2) 111, 151) EE/CPE 329 (4)* MATH 141 (4) MATH 142 (4) CPE/EE 133 (4) CPE/EE 233 (4) EE 228 (4) EE 328 (3) & EE 302 (3) & EE 460 (2) (EE 461) EE 342 (1) EE 368 (1) (MATH 141 w/min C-) Basic Electronics (EE 111 & 151; CPE/CSC BMED 355; or EE 212 & Microprocessor (EE 314; 335; EE 409† & 449†) (CPE/EE 133) Manufacturing BMED 355 or EE 228) (EE 228: Recom: EE 368) System Design EE 463 (2) EE 464 (2) IME 156 (2) EE 336 (4)* (FF 409, 449, 4 Take concurrently: Choose EE or Options3: General Chemistr Approved ctromag. Fields & Electromagnetic Electromag. Fields & Approved General Physics II for Physical Engineering General Physics III Waves General Physics IA BIO 213 (2) Trans & Lah Waves Trans & Lah Engineering Science & Support EE 335 (4) & EE 335 (4) & EE 402 (4)4 Support Elective Engineering I Electives EE 375 (1)3 EE 402 (4)4 EE 375 (1)3 Bioengineering CHEM 124 (4) PHYS 141 (4) PHYS 133 (4) PHYS 132 (4) $(3)^{2}$ $(3)^{2}$ BMED 213 (2) (MATH 141 w/min C-; MATH 142† or 182†) HYS 131, HNRS 131 (PHYS 131, HNRS 131, o *** *** GE (4) PHYS 141: MATH 142 GE (4) GE (4) GE (4) PHYS 141) [B3/B4] [Add'l Area B] Probability and Introduction to Calculus III Linear Analysis I Calculus IV Modern Physics I **Technical** andom Processes Communication Elective for Engineers Systems MATH 143 (4) MATH 244 (4) MATH 241 (4) PHYS 211 (4) STAT 350 (4) $(4)^{2}$ EE 314 (3) (PHYS 132; 133; MATH 41. Recom: MATH 242 or 244) (MATH 142 w/min C-) (MATH 241; EE 228) (MATH 143) (MATH 143) (STAT 350) *** GE (4) GE (4) [Add'l Area B Expository Writing ENGL 133 or 134 (4)** [A1] GE (4) GE (4) Approved GE (4) GE (4) Engineering Oral Communication COMS 101 or 102 (4)** [A2] Support Elective **Graduation Writing Requirement** $(3)^{3}$ Technical Writing for Engineers ENGL 149 (4) [A3] (Students can attempt to fulfill the requirement after 90 earned units; students shou complete the requirement before senior year) *** (Completion of GE A1 with a C- or better, Recommended; Com Can be taken anytime between Winter of Freshman and Winter of Sophomore Years 14 16 16-17 16 15 16-17 17 17 16 TOTAL: 192 Notes: Leaend: MOST GENERAL EDUCATION COURSES CAN BE TAKEN IN ANY ORDER AS LONG AS PREREQUISITES ARE MET Course Title Major (87) * Refer to current catalog for prerequisites. Course # (Units) ** One course from each of the following GE areas must be completed: A1, A2, C1, C2, C3, C4, D1, D2, D3, E (formerly GE D4). C4 should be taken only after Junior standing is reached (90 units). Support (65) *** Refer to current catalog for course selection.

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 E.

MAJOR COURSES SHOULD BE TAKEN IN QUARTERS DESIGNATED ON THIS EE FLOWCHART

† Course can be taken previously or concurrently.

1 ENGR 459, ENGR 460 and ENGR 461 (6) may substitute for the series EE 460, EE 461 and EE 462 (6) or the series EE 460, EE 463 and EE 464 (6).

² See catalog for course options. Consultation with advisor is recommended prior to selecting technical electives or approved electives; bear in mind your selections may impact pursuit of post-baccalaureate studies and/or goals. No course credits may be used simultaneously to satisfy both engineering support and technical elective requirements.

³EE 335/375 and EE 402 may be taken spring/fall of soph/junior or junior/senior years.