## Electrical Engineering (2021-2022 Catalog) STANDARD TRACK (125 credits minimum) See catalog for official degree requirements. Course requisites are subject to change as they are specific to academic year, not All courses listed on the flowchart must be successfully completed. Underlined courses are only offered in the semester they are listed. the catalog year. **Sophomore** Senior Freshman Junior 16 17 15/16 15 17 15/16 15 15 EE 410(3) and MA 441 (3) EE 412 (1) Math MA 345 (4) MA 241 (4) MA 242 (4) MA 243 (4) Comm Systems Methods Diff. Eq. MA 412 (3) Calc 1 Calc 2 Calc 3 Engr & Phys Prob/Stat С HU 330 (3) С С Values/Ethics PR is any HU 1xx/2xx ◊ EE 314 (3) PS 250 (3) EE 223 (3) ES 315 (1) Physics 3 PS 161 (4) EE 224 -Lab (1) ignal & Linear Co-Reg is Physics I & II Linear Circuits Systems EGR 101 (2) MA 243 C С Analysis c Analysis 1 EE 340(3) Intro to Electric & Engineering Mag Fields PR is also See your PS 250 academic advisor PS 253 (1) UNIV 101 (1) early and often if Physics Lab College you have any CEC 220 (3) Success questions or need CEC 222-Lab (1) assistance with Digital Circuits EE 401 (3) academic EE 420 (3) EE 421 (3) EE 402 Lab (1 EGR 115 (3) planning. Prelim Design Detail Design Control Intro to (Avionics) (Avionics) Computing <u>Systems</u> С FE 302 (3) and CEC 320 (3) EE 304 (1) CEC 322L Lab CS 125 (4) Gen Ed (3) Devices c (1)SELECT CS 125L Lab Microprocessor ONE: (0)Systems HU/SS/ Comp С EE Advanced HU 1xx/2xx PSY/RS/EC Science 1 C Elective (3/4) (3 credits) PR as appropriate 1xx/2xx or Humanities ES 312 (3) L3xx/4xx (lower level) **Energy Transfer** PR is PS161 EE 450(3) COM 221 (3) EE Advanced and 452 (1) Tech Report Elective (3) ES 207 (3) COM 122 (3) Writing Elem of PR as appropriate **Mechanics** English COM 219 (3) Power PR is PS 161 Composition Speech Systems С EC 225 (3) ES Core Engineering This flow chart provides guidelines Elective (3) Economics for the sequencing of courses and Technical [PR is MA 241] PR as timely degree completion. Students Elective (3) Technical appropriate are responsible for understanding Elective (3) PRE-Rea (PR) their degree requirements. CO-Rea Withdrawing from or failing classes Critical Path may mean a delay in graduation Technical Electives include EGR 200, CS 225, and any AE, AF, CEC, CS, EE, and/or the need for summer classes EP. ES. MA. ME. MSL, PS. SE. or SYS course 300 level or above. Other Technical courses may be approved by the CESE department chair. Only one three-credit Elective (3) technical elective may come from AF or MSL. IMPORTANT: Electrical engineering majors are required to have a grade of C or better in all prerequisite courses for courses with the CS, CEC, EE, EGR,

The Electrical Engineering degree includes a space option

in which EP 394, AE 427, and AE 445 substitute for the ES

elective, EE 420, and EE 421

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Refer to catalog for ES Core and General Ed course options.

ES, or SE prefixes specifically listed in the catalog as required for the major.

On flowchart, **C** in course block indicates a grade of C or better is required to

advance.