See catalog for official degree requirements. Software Engineering (2021-2022 Catalog) STANDARD TRACK (126 credits minimum) Pre- and corequisites are subject to change as they are specific to academic year, not the All courses listed on the flowchart must be successfully completed. **Underlined courses are only offered in the semester they are listed**. catalog year. Freshman **Junior** Senior Sophomore 16/17 15 16 16 15 16 17 15 MA 243 (4) MA 345 (4) MA 241 MA 242 MA 225 (3) Calc 3 Diff. Eq. Open Elective Open Elective (4) Calc 2 (4) Calc 1 MA 412 (3) Discrete (3) LL or UL (3) LL or UL Prob/Stat Structures EC 225 (3) CS 432 (3) Info. PS 250 (3) Engineering Technical & Comp Physics 3 Elective (3) Economics Security PR is EGR 101 (2) Co-Rea is SE 420 (3) PR is MA 241 CS 420 Intro to MA 243 PS 161 (4) Software Engineering Physics I & II Qual. PS 253 (1) SE 310 (3) See your Physics Lab Analysis and academic SE 450 (3) CS 315 (3) Design of advisor early SE 451 (3) UNIV 101 (1) CS 317 (3) Software Team Data c Software and often if you Software Team Files & Project I College SE 300 (3) Structures and have any Systems Project II **Database** (PR is also CEC Success Software End questions or Analysis of (PR also CS Systems C 320+322; Co-reg С need assistance Algorithms 225) is CEC 450) **c** with academic planning. SE 320 (3) Software CS 118 (3) Fund CS 420 (3) Const. CS 125 (4) CS 332 (3) (PR CS 420 Operating of Comp. Prog. CS 415 (3) Human CS 125L Lab Organization of and CS 225) or EGR 115 (3) **Systems Machine Interfaces** (0) **c Programming** Intro to С (PR is also CS 225) Comp Language Computing C This flow chart provides guidelines Science 1 (PR is also CS 225) Gen Ed (3) for the sequencing of courses and CS 225 (4) C CEC 320 (3) SELECT ONE: CEC 450 (3) timely degree completion. Computer Sci. II CEC 220 (3) CEC 322L (1) Real-Time HU/SS LL Students are responsible for CS 225L Lab (0) CEC 222-Lab Microprocessor understanding their degree Systems_PR is requirements. Withdrawing from or (1) Digital Systems also CS 125 failing classes may mean a delay Circuits C in graduation and/or the need for HU 1xx/2xx summer classes HU 330 (3) (3 credits) Values/Ethics Humanities CEC 470 (3) COM 122 (3) PR is any HU CEC 460 (3) (lower level) 1xx/2xx English Computer Telecomm Sys. Composition Architecture С COM 221 (3) Technical electives include EGR 200 and any AE, CEC, CS, EE, EP, ES, MA, ME, Tech Report PS, SE, or SYS course 300 level or above. Other courses may be approved by the COM 219 (3) Updated Writing Speech March 2021 CESE department chair. <u>UNIV 101</u> is taken in excess of degree requirements or meets open elective credit.

SPACE OPTION: The Software Engineering degree

includes a space option in which EP 394, AE 427,

and AE 445 substitute for a technical elective. SE

450, and SE 451

IMPORTANT: Softward engineering majors are required to have a grade of C

or better in all prerequisite courses for courses with the CS, CEC, EE, EGR,

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.

Refer to catalog for General Ed course options.

Critical Path _

PRE-Reg (PR) _

CO-Req ----->