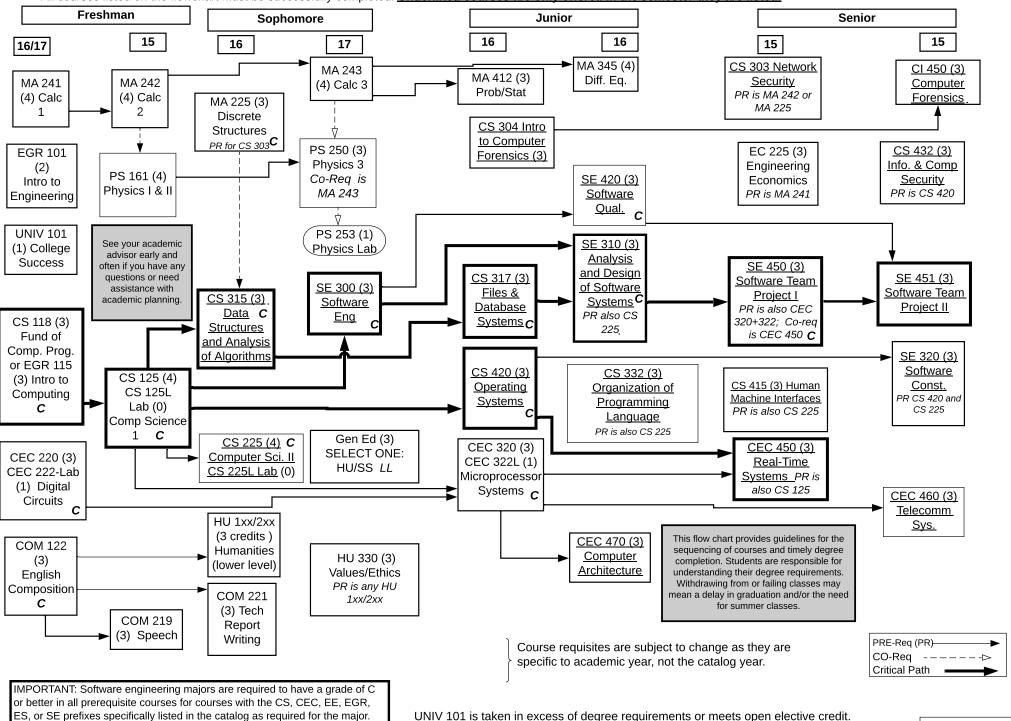# Software Engineering (2021-2022 Catalog) Cyber Security TRACK (126 credits minimum) See catalog for official degree requirements.

All courses listed on the flowchart must be successfully completed. **Underlined courses are only offered in the semester they are listed.**

Freshman	Sophomore	Junior	Senior

16/17 · **15** · **16** · **17** · **16** · **16** · **15** · **15**

MA 241 (4) Calc 1

MA 242 (4) Calc 2

MA 225 (3) Discrete Structures
PR for CS 303 **C**

MA 243 (4) Calc 3

MA 412 (3) Prob/Stat

MA 345 (4) Diff. Eq.

CS 303 Network Security
PR is MA 242 or MA 225

CI 450 (3) Computer Forensics.

EGR 101 (2) Intro to Engineering

PS 161 (4) Physics I & II

PS 250 (3) Physics 3
Co-Req is MA 243

CS 304 Intro to Computer Forensics (3)

EC 225 (3) Engineering Economics
PR is MA 241

CS 432 (3) Info. & Comp Security
PR is CS 420

UNIV 101 (1) College Success

See your academic advisor early and often if you have any questions or need assistance with academic planning.

PS 253 (1) Physics Lab

SE 420 (3) Software Qual. **C**

CS 315 (3) Data Structures and Analysis of Algorithms **C**

SE 300 (3) Software Eng **C**

SE 310 (3) Analysis and Design of Software Systems **C**
PR also CS 225.

SE 450 (3) Software Team Project I
PR is also CEC 320+322; Co-req is CEC 450 **C**

SE 451 (3) Software Team Project II

CS 118 (3) Fund of Comp. Prog. or EGR 115 (3) Intro to Computing **C**

CS 125 (4) CS 125L Lab (0) Comp Science 1 **C**

CS 317 (3) Files & Database Systems **C**

CS 420 (3) Operating Systems **C**

CS 332 (3) Organization of Programming Language
PR is also CS 225

CS 415 (3) Human Machine Interfaces
PR is also CS 225

SE 320 (3) Software Const.
PR CS 420 and CS 225

CEC 220 (3) CEC 222-Lab (1) Digital Circuits **C**

CS 225 (4) **C** Computer Sci. II CS 225L Lab (0)

Gen Ed (3) SELECT ONE: HU/SS *LL*

CEC 320 (3) CEC 322L (1) Microprocessor Systems **C**

CEC 450 (3) Real-Time Systems *PR is also CS 125*

CEC 460 (3) Telecomm Sys.

COM 122 (3) English Composition **C**

HU 1xx/2xx (3 credits) Humanities (lower level)

HU 330 (3) Values/Ethics
PR is any HU 1xx/2xx

CEC 470 (3) Computer Architecture

This flow chart provides guidelines for the sequencing of courses and timely degree completion. Students are responsible for understanding their degree requirements. Withdrawing from or failing classes may mean a delay in graduation and/or the need for summer classes.

COM 219 (3) Speech

COM 221 (3) Tech Report Writing

Course requisites are subject to change as they are specific to academic year, not the catalog year.

PRE-Req (PR) ——————▶
CO-Req – – – – – ⊳
Critical Path ━━━━▶

IMPORTANT: Software 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.

UNIV 101 is taken in excess of degree requirements or meets open elective credit.

Refer to catalog for General Ed course options.

Updated March 2021