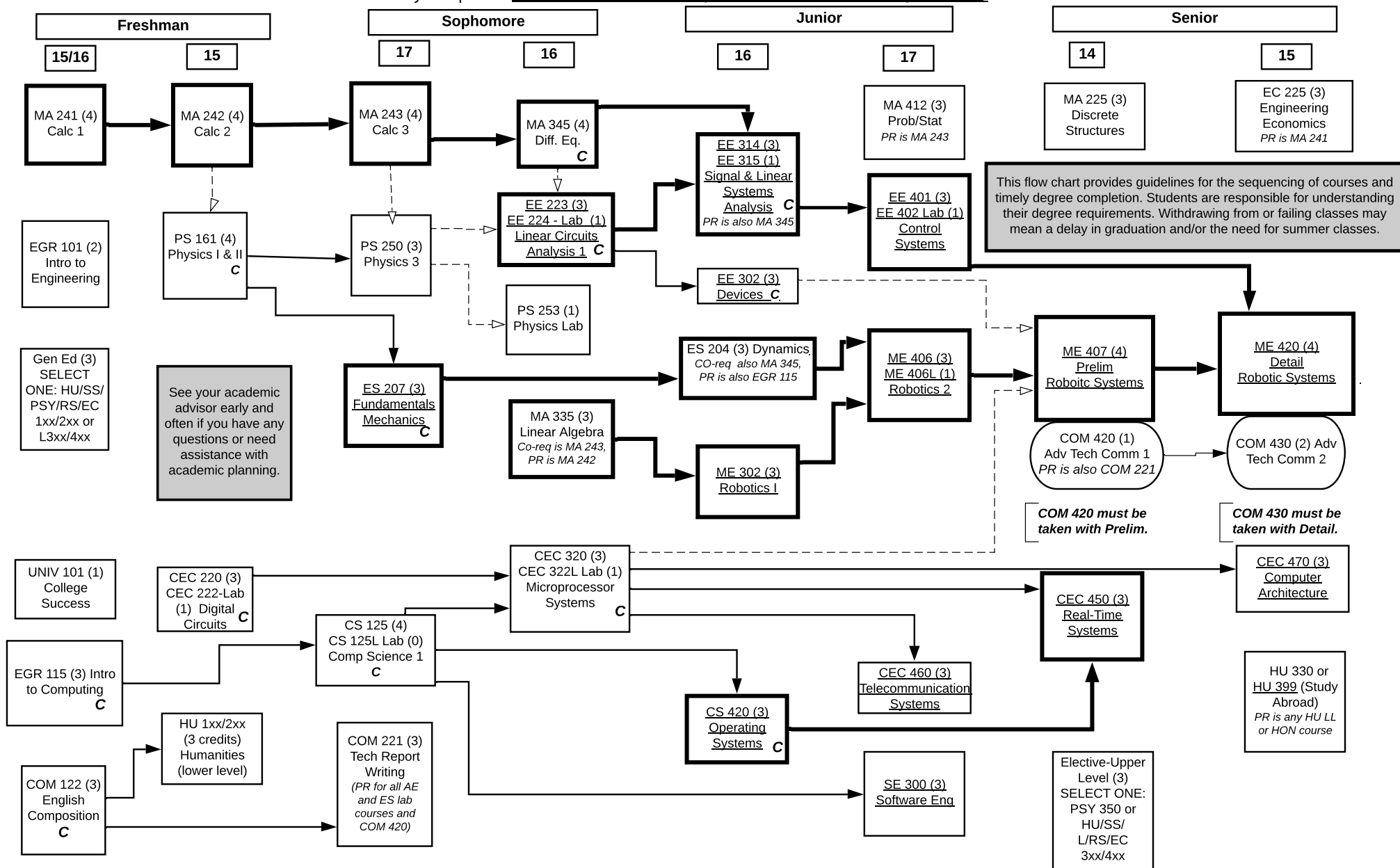# Computer Engineering (2020-2021 Catalog) ROBOTICS TRACK (125 credits minimum)

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**

15/16 | 15 | 17 | 16 | 16 | 17 | 14 | 15

MA 241 (4) Calc 1

MA 242 (4) Calc 2

MA 243 (4) Calc 3

MA 345 (4) Diff. Eq. **C**

MA 412 (3) Prob/Stat *PR is MA 243*

MA 225 (3) Discrete Structures

EC 225 (3) Engineering Economics *PR is MA 241*

EGR 101 (2) Intro to Engineering

PS 161 (4) Physics I & II **C**

PS 250 (3) Physics 3

EE 223 (3) EE 224 - Lab (1) Linear Circuits Analysis 1 **C**

EE 314 (3) EE 315 (1) Signal & Linear Systems Analysis **C** *PR is also MA 345*

EE 401 (3) EE 402 Lab (1) Control Systems

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.

PS 253 (1) Physics Lab

EE 302 (3) Devices **C**.

Gen Ed (3) SELECT ONE: HU/SS/ PSY/RS/EC 1xx/2xx or L3xx/4xx

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

ES 207 (3) Fundamentals Mechanics **C**

ES 204 (3) Dynamics *CO-req also MA 345, PR is also EGR 115*

ME 406 (3) ME 406L (1) Robotics 2

ME 407 (4) Prelim Roboitc Systems

ME 420 (4) Detail Robotic Systems

MA 335 (3) Linear Algebra *Co-req is MA 243, PR is MA 242*

ME 302 (3) Robotics I

COM 420 (1) Adv Tech Comm 1 *PR is also COM 221*

COM 430 (2) Adv Tech Comm 2

COM 420 must be taken with Prelim.

COM 430 must be taken with Detail.

UNIV 101 (1) College Success

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

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

CEC 450 (3) Real-Time Systems

CEC 470 (3) Computer Architecture

EGR 115 (3) Intro to Computing **C**

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

CEC 460 (3) Telecommunication Systems

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

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

HU 330 or HU 399 (Study Abroad) *PR is any HU LL or HON course*

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

COM 221 (3) Tech Report Writing *(PR for all AE and ES lab courses and COM 420)*

SE 300 (3) Software Eng

Elective-Upper Level (3) SELECT ONE: PSY 350 or HU/SS/ L/RS/EC 3xx/4xx

PRE-Req (PR) ⟶
CO-Req ⇢
Critical Path ⟹

IMPORTANT: Computer 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.

See catalog for official degree requirements. Course requisites are subject to change as they are specific to academic year, not the catalog year.

Updated February 2020

Refer to catalog for General Ed course options.