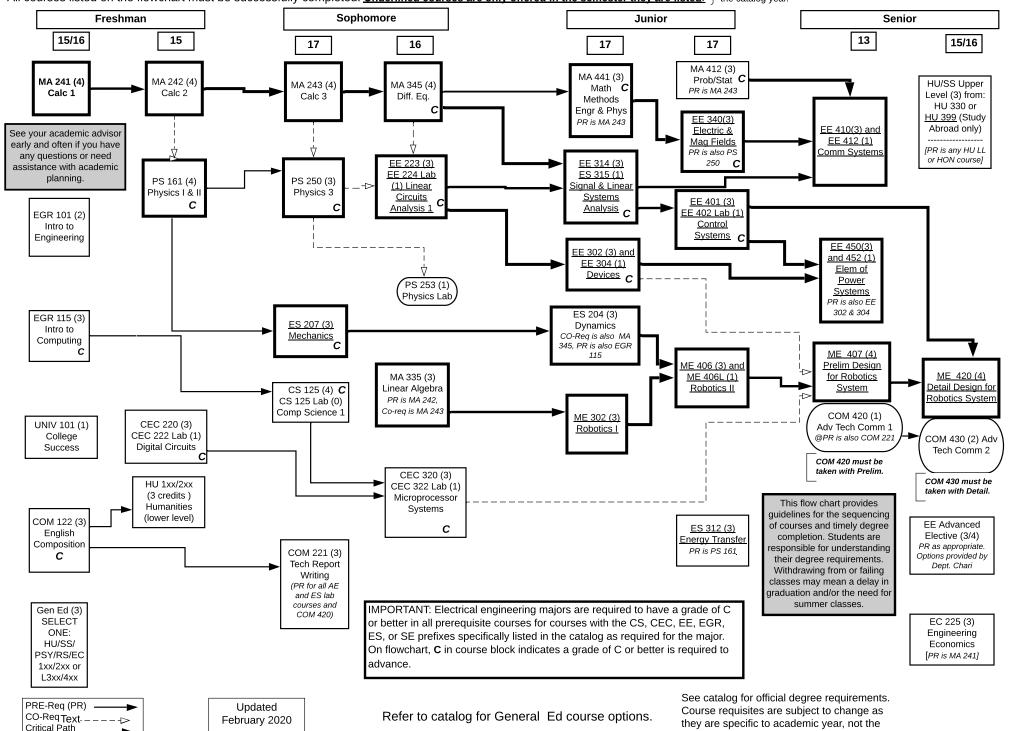# Electrical Engineering (2020-2021 Catalog) ROBOTICS TRACK (125 credits minimum)

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

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

Freshman	Sophomore	Junior	Senior
15/16 15	17 16	17 17	13 15/16

MA 241 (4) Calc 1

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

MA 242 (4) Calc 2

EGR 101 (2) Intro to Engineering

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

EGR 115 (3) Intro to Computing *C*

UNIV 101 (1) College Success

COM 122 (3) English Composition *C*

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

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

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

MA 243 (4) Calc 3

PS 250 (3) Physics 3 *C*

ES 207 (3) Mechanics *C*

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

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

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

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

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

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

PS 253 (1) Physics Lab

MA 441 (3) Math Methods Engr & Phys *C* *PR is MA 243*

EE 340(3) Electric & Mag Fields *PR is also PS 250* *C*

EE 314 (3) ES 315 (1) Signal & Linear Systems Analysis *C*

EE 302 (3) and EE 304 (1) Devices *C*

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

ME 406 (3) and ME 406L (1) Robotics II

ME 302 (3) Robotics I

ES 312 (3) Energy Transfer *PR is PS 161*

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

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

ME 407 (4) Prelim Design for Robotics System

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

COM 420 must be taken with Prelim.

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.

EE 410(3) and EE 412 (1) Comm Systems

EE 450(3) and 452 (1) Elem of Power Systems *PR is also EE 302 & 304*

ME 420 (4) Detail Design for Robotics System

COM 430 (2) Adv Tech Comm 2

COM 430 must be taken with Detail.

HU/SS Upper Level (3) from: HU 330 or HU 399 (Study Abroad only) ------------------ *[PR is any HU LL or HON course]*

EE Advanced Elective (3/4) *PR as appropriate. Options provided by Dept. Chari*

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

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, 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.

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

Updated February 2020

Refer to catalog for General Ed course options.

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