

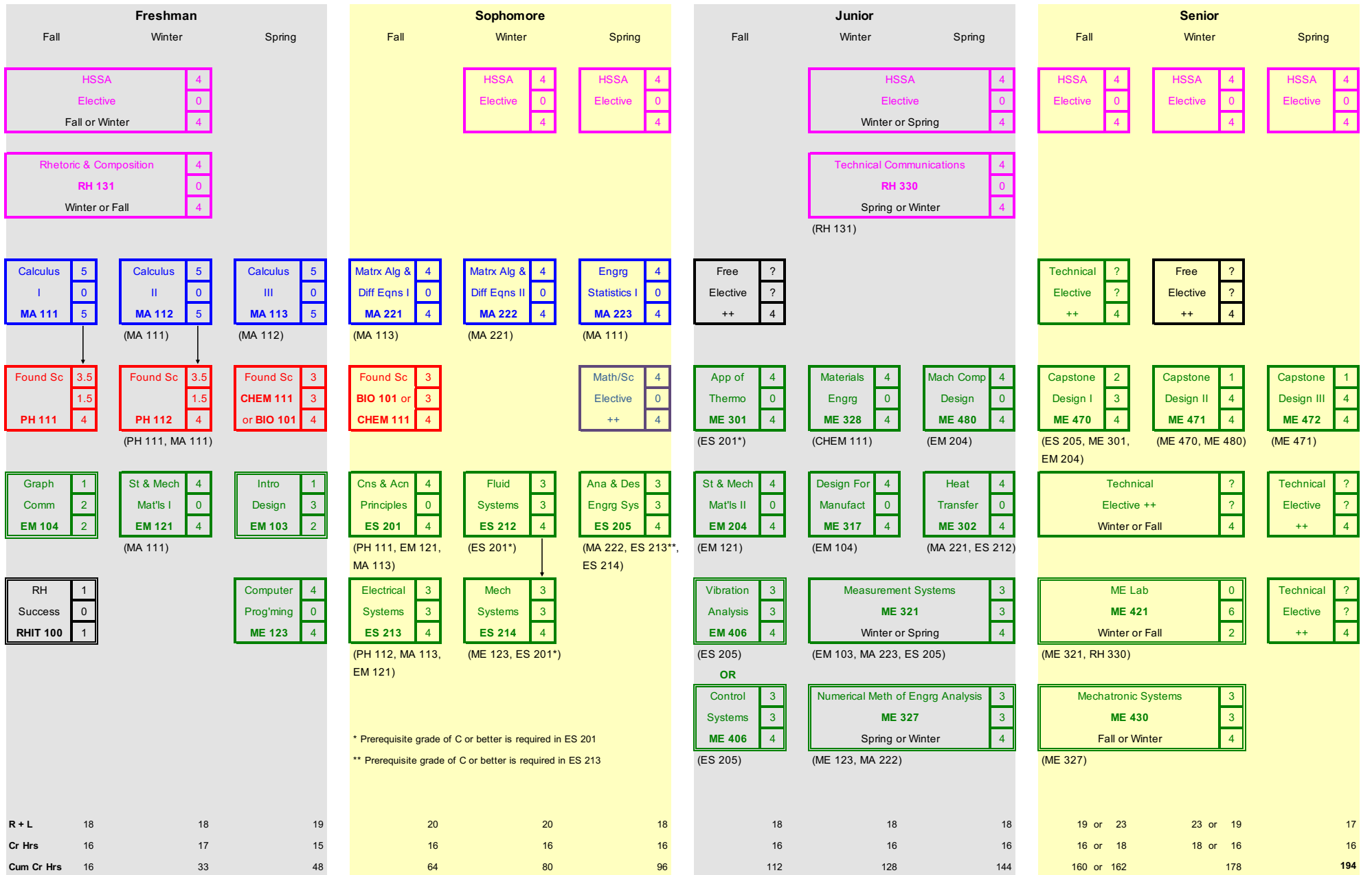
Entered Fall 2020 or later

Rose-Hulman Institute of Technology

Mechanical Engineering Curriculum Flowchart

Prerequisite ()
 Co-requisite ↓
 Offered this quarter only □

R = R recitation hrs./wk.
 L = L laboratory hrs./wk.
 C = C credit hours



++ 28 credits in electives composed of 16 credits in technical electives, 4 credits in a math/science elective, and 8 credits in free electives. A technical elective is any course (at the 200 level or above) in biomathematics, chemistry, computer science, engineering, engineering management, geology, life science, mathematics, or physics that is not cross-listed with HSSA or similar in content to a required course. A math elective is any mathematics or biomathematics course at the 200 level or above. A science elective is any course in biology, chemistry, geology, life science, or physics that is not cross-listed with an engineering course.

Course	Main Offering	Alternate Quarters	Prerequisites
EM 103	Introduction to Design	Spring	--
EM 104	Graphical Communications	Fall	--
EM 121	Statics & Mechanics of Mat'ls I	Winter	Fall Spring MA 111
EM 204	Statics & Mechanics of Mat'ls II	Fall	Winter Spring EM 121
EM 406	Vibration Analy	Fall	ES 205
ES 201	Conserv & Accnt Principles	Fall	Winter EM 121, MA 113, PH 111
ES 212	Fluid Systems	Winter	Spring ES 201 with a grade of C or better
ES 213	Electrical Systems	Fall	Winter Spring PH 112, MA 113, EM 121
ES 214	Mechanical Systems	Winter	Spring ES 201 with a grade of C or better; ME 123 or BE 100 or CSSE 120 (or equivalent). Co-req: ES 212
ES 205	Analy & Design of Engr Sys	Spring	Fall ES 213 with a grade of C or better, or ECE 203 with a grade of C or better, ES 214, MA 211/222
ME 123	Computer Programming	Spring	Fall Winter ME/PHOE major or permission of instructor
ME 301	Applications of Thermodynamics	Fall	Winter ES 201 with a grade of C or better or CE 205
ME 302	Heat Transfer	Spring	Fall MA 211/221 and ES 212 or CHE 301 or EM 301
ME 317	Design for Manufacturing	Winter	Fall EM 104
ME 321	Measurement Systems	Winter Spring	Fall (permission only) EM 103, ES 205, MA 223
ME 327	Num Meth of Engrg Analysis	Winter Spring	ME 123 or BE 100 or CSSE 120, MA 212/222
ME 328	Materials Engineering	Winter	Fall CHEM 111
ME 406	Control Sys	Fall	ES 205
ME 421	M.E. Lab	Fall Winter	ME 321 and RH 330
ME 430	Mechatronic Systems	Fall Winter	ME 323/327 or CSSE 220 or ECE 230
ME 470	Capstone Design I	Fall	Spring ES 205, EM 204, ME 301, and Junior Standing
ME 471	Capstone Design II	Winter	Fall ME 470 and ME 480
ME 472	Capstone Design III	Spring	Winter ME 471
ME 480	Machine Component Design	Spring	Fall EM 204