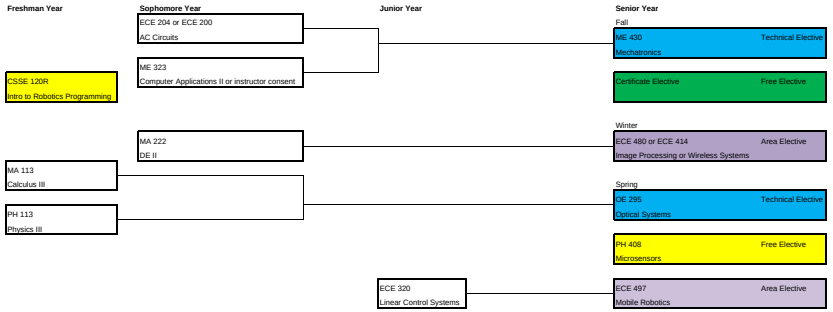

Freshman Year

Fall Term		*Credit*
PH	111 Physics I	4
MA	111 Calculus I	5
CLSK	100 College and Life Skills	1
RH	131 Rhetoric & Composition	
	or	
HSS	Elective	4
ECE	160 Engineering Practice	2
		16

Winter Term		*Credit*
PH	112 Physics II	4
MA	112 Calculus II	5
ECE	130 Introduction to Logic Design	4
RH	131 Rhetoric & Composition	
	or	
HSS	Elective	4
		17

Spring Term		*Credit*
PH	113 Physics III	4
MA	113 Calculus III	5
HSS	Elective	4
CSSE	120 Introduction to Software Development	4
		17

Sophomore Year

Fall Term		*Credit*
MA	221 Differential Equations and Matrix Algebra I	4
CHEM	105 Engineering Chemistry I	4
ECE	203 DC Circuits	4
ECE	230 Microcontrollers and Computer Architecture	4
		16

Winter Term		*Credit*
MA	222 Differential Equations & Matrix Algebra II	4
	Math/Science Elective	4
ECE	204 AC Circuits	4
HSS	Elective	4
		16

Spring Term		*Credit*
MA	381 Introduction to Probability with Applications to Statistics	4
ECE	205 Dynamical Systems	4
ECE	250 Electronic Device Modeling	4
HSS	Elective	4
		16

Junior Year

Fall Term		*Credit*
ECE	300 Signals & Systems	4
ECE	370 Power & Energy Systems	
	or	
ECE	371 Sustainable Energy Systems	4
ECE	340 Electromagnetic Fields	4
RH	330 Technical and Professional Communication	4
		16

Winter Term		*Credit*
ECE	380 Discrete Time & Continuous Systems	4
ECE	351 Analog Electronics	4
ECE	341 Electromagnetic Waves	4
	Math/Science Elective	4
		16

Spring Term		*Credit*
ECE	310 Communications Systems	4
ECE	320 Linear Control Systems	4
ECE	333 Digital Systems	4
ECE	362 Principles of Design	3
		15

Senior Year

Fall Term		*Credit*
ECE	460 Engineering Design I	3
ME	**430 Mechatronics**	**4**
	Robotics Certificate Elective	**4**
HSS	Elective	4
		15

Winter Term		Credit
ECE	461 Engineering Design II	4
ECE	**480 or 414 Image Processing or Wireless Systems**	**4**
	Area Elective	**4**
HSS	Elective	4
		16

Spring Term		Credit
ECE	462 Engineering Design III	2
PH	**408 Microsensors**	**4**
ECE	**497 Mobile Robtics**	**4**
OE	**295 Optical Systems**	**4**
HSS	Elective	4
		18

Total credits required: 194