

ECE with Sensors Robotics Track Sample Schedule, based upon 2011 - 2012 Catalog for an EE Major

See your advisor if you are a CPE major who wants to take this track

See your robotics advisor to discuss modifications to meet your circumstances

Freshman Year			Sophomore Year		
<i>Fall Term</i>			<i>Fall Term</i>		
PH	111 Physics I	Credit 4	MA	211 Diff Eq & Matrix Algebra I	Credit 4
MA	111 Calculus I	5	CHEM	111 General Chemistry I	4
CLSK	100 College and Life Skills	1	ECE	203 DC Circuits	4
RH	131 Rhetoric & Composition		ECE	230 Microcontrollers and Computer Architecture	4
	or				16
HSS	Elective	4			
ECE	160 Engineering Practice	2			
		16			
<i>Winter Term</i>			<i>Winter Term</i>		
PH	112 Physics II	Credit 4	MA	212 Diff Eq & Matrix Algebra II	Credit 4
MA	112 Calculus II	5	OE	295 Optical Systems (FE)	4
ECE	130 Introduction to Logic Design	4	ECE	204 AC Circuits	4
RH	131 Rhetoric & Composition		HSS	Elective	4
	or				16
HSS	Elective	4			
		17			
<i>Spring Term</i>			<i>Spring Term</i>		
PH	113 Physics III	Credit 4	MA	381 Intro to Probability & Stats	Credit 4
MA	113 Calculus III	5	ECE	205 Dynamical Systems	4
HSS	Elective	4	ECE	250 Electronic Device Modeling	4
CSSE	120R Intro to Software Dev (Robotics)	4	HSS	Elective	4
		17			16
Junior Year			Senior Year		
<i>Fall Term</i>			<i>Fall Term</i>		
ECE	300 Signals & Systems	Credit 4	ROBO	410 Robotics Senior Design	4
ECE	370 Power & Energy Systems			Robotics Elective (TE)	4
	or			Math/Science Elective	4
ECE	371 Sustainable Energy Systems	4	HSS	Elective	4
ECE	340 Electromagnetic Fields	4			16
RH	330 Tech and Prof Comm	4			
		16			
<i>Winter Term</i>			<i>Winter Term</i>		
ECE	380 Discrete Time & Continuous Systems	Credit 4	ROBO	420 Robotics Senior Design	4
ECE	351 Analog Electronics	4	ECE	425 Mobile Robotics (AE)	4
ECE	341 Electromagnetic Waves	4	ECE	414 Wireless Systems (AE)	4
ME	430 Mechatronics (TE)	4	HSS	Elective	4
		16			16
<i>Spring Term</i>			<i>Spring Term</i>		
ECE	310 Communications Systems	Credit 4	ROBO	430 Robotics Senior Design	4
ECE	320 Linear Control Systems	4	EP	408 Microsensors (FE)	4
ECE	333 Digital Systems	4		Math/Science Elective	4
HSS	Elective	4		Area Elective	4
		16			16

Revised 1/17/12

Total credits required: 194

AE = Area Elective (3 required)

TE = Tech Elective (2 required)

FE = Free Elective (2 required)