

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

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	4	MA	211 Differential Equations	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				<b>16</b>
HSS	Elective	4			
ECE	160 Engineering Practice	2			
		<b>16</b>			
<i>Winter Term</i>			<i>Winter Term</i>		
PH	112 Physics II	4	MA	212 Matrix Algebra and Systems of Diff Equations	4
MA	112 Calculus II	5	<b>ES</b>	<b>201 Conservation and Accounting (TE)</b>	<b>4</b>
ECE	130 Introduction to Logic Design	4	ECE	204 AC Circuits	4
RH	131 Rhetoric & Composition		HSS	Elective	4
	or				<b>16</b>
HSS	Elective	4			
		<b>17</b>			
<i>Spring Term</i>			<i>Spring Term</i>		
PH	113 Physics III	4	MA	381 Intro to Probability & Stats	4
MA	113 Calculus III	5	ECE	205 Dynamical Systems	4
HSS	Elective	4	ECE	250 Electronic Device Modeling	4
<b>CSSE</b>	<b>120R Intro to Software Dev (Robotics)</b>	<b>4</b>	<b>ES</b>	<b>204 Mechanical Systems (FE)</b>	<b>4</b>
		<b>17</b>			<b>16</b>
Junior Year			Senior Year		
<i>Fall Term</i>			<i>Fall Term</i>		
ECE	300 Signals & Systems	4	<b>ROBO</b>	<b>410 Robotics Senior Design</b>	<b>4</b>
ECE	370 Power & Energy Systems		<b>ME</b>	<b>403 Kinematics (TE)</b>	<b>4</b>
	or			Math/Science Elective	4
ECE	371 Sustainable Energy Systems	4	HSS	Elective	4
ECE	340 Electromagnetic Fields	4			<b>16</b>
RH	330 Tech and Prof Comm	4			
		<b>16</b>			
<i>Winter Term</i>			<i>Winter Term</i>		
ECE	380 Discrete Time & Continuous Systems	4	<b>ROBO</b>	<b>420 Robotics Senior Design</b>	<b>4</b>
ECE	351 Analog Electronics	4	<b>ECE</b>	<b>425 Mobile Robotics (AE)</b>	<b>4</b>
ECE	341 Electromagnetic Waves	4		Math/Science Elective	4
<b>ME</b>	<b>430 Mechatronics (FE)</b>	<b>4</b>	HSS	Elective	4
		<b>16</b>			<b>16</b>
<i>Spring Term</i>			<i>Spring Term</i>		
ECE	310 Communications Systems	4	<b>ROBO</b>	<b>430 Robotics Senior Design</b>	<b>4</b>
ECE	320 Linear Control Systems	4		<b>Robotics Elective (AE)</b>	<b>4</b>
ECE	333 Digital Systems	4	HSS	Elective	4
HSS	Elective	4		Area Elective	4
		<b>16</b>			<b>16</b>

Revised 6/5/12

Total credits required: 194

AE = Area Elective (3 required)

TE = Tech Elective (2 required)

FE = Free Elective (2 required)