

## General Engineering – Robotics Concentration

ROBOTICS Concentration					5-19-2021
<b>FALL</b>	<b>Freshman</b>		<b>SPRING</b>	<b>Freshman</b>	
MATH 121	Calculus with Analytical Geom. I	3	MATH 122	Calculus with Analytical Geom. II	3
ECON 101	EPPS*	3	CHEM 122/L	General Chemistry II	4
CHEM 121/L	General Chemistry I	4	PHYS 121/L	General Physics I	4
ENGR 101	Intro. to Engineering I	1	ENGR 102	Intro. to Engineering II	1
WRIT 102	Research Writing	3	LIT 104	LIT 104, 201,202,207 or 270	3
CORE 113	First Year Seminar	3	CORE 104	Community Enrichment	0
CORE 103	Community Enrichment	0	ENGR 193	Freshman Engineering Seminar	0
ENGR 192	Freshman Engineering Seminar	0	RLST 105	Franciscan Goals for Today	3
	<b>Total</b>	<b>17</b>		<b>Total</b>	<b>18</b>
<b>FALL</b>	<b>Sophomore</b>		<b>SPRING</b>	<b>Sophomore</b>	
MATH 221	Calculus III	3	MATH 306	Diff. Eqns. I	3
PHYS 122/L	General Physics II	4	PHIL 205	Philosophy	3
ENGR 210/L	Programming for Engineers	2	ENGR 293	Sophomore Engineering Seminar	0
ENGR 201	Engineering Statics	3	ENGR 202	Engineering Dynamics	3
ENGR 250	Solid Modeling & CAD	3	ENGR 325/L	Fundamentals of Electrical Engineering	4
ENGR 292	Sophomore Engineering Seminar	0	ENGR 315/L	Mechanics of Materials	3
HIST	History 100/200	3	ENGR 279	Sophomore Engin. Design for Service	1
	<b>Total</b>	<b>18</b>		<b>Total</b>	<b>17</b>
<b>FALL</b>	<b>Junior</b>		<b>SPRING</b>	<b>Junior</b>	
MATH 322	Linear Algebra	3	ENGR 335	Engineering Instrumentation	1
ENGR 301/L	Fluid Mechanics	4	CPSC 240	Applied Programming Lang.	1
ENGR 350	Material Science	3	ENGR 375	Heat Transfer	3
ENGR 321	Applied Engineering Thermodynamics	3	ENGR 393	Junior Engineering Seminar	1
EXAM 301	Writing Comp Exam	0	ENGR 366	Unmanned Vehicles	3
ENGR 392	Junior Engineering Seminar	0	DIV REQ	Diversity Requirement	3
FNAR	Fine Arts Elective	3	ENGR 435/L	Control Theory	4
			ENGR 379	Junior Engin. Design for Service	1
	<b>Total</b>	<b>16</b>		<b>Total</b>	<b>17</b>
<b>FALL</b>	<b>Senior</b>		<b>SPRING</b>	<b>Senior</b>	
RLST/PHIL	Religious Studies or Philosophy	3			
CPSC 450	Autonomous Systems	3	ENGR 455	Robotics	4
EPPS*	EPPS*	3	LANG	Language 102+	3
ENGR 492	Senior Engineering Seminar	0	EPPS	EPPS*	3
ENGR 497	Capstone Design Proposal	1	CORE 407	Keystone Seminar	3
ENGR 415	Senior Lab	3	ENGR 493	Senior Engineering Seminar	0
ENGR 445	Mechanisms, Linkages and Design of Machine Elements	3	ENGR 498	Capstone Design	3
ENGR 427	Power & Thermal Systems Lab	1			
	<b>Total</b>	<b>17</b>		<b>Total</b>	<b>16</b>
EPPS* ECON 101, PLSC 100-200, PSYC 101, SOC 100-200					
(136 Total credits: 59 credits ENGR; 35 credits Collateral; 42 General Education)					