

Mechatronics and Robotics Courses and Equivalencies			Updated: Sept 14, 2020
<b>Level 1 (September - December, 15 weeks)</b>		<b>Equivalent daycourse</b>	<b>Equivalent Part Time/ Dist Ed</b>
COMM 1164	Technical Writing 1 for Robotics	COMM 1143	COMM 1103
ELEX 1205	DC Circuit Analysis for Robotics	ELEX 1105*	ELEX 1105*
ELEX 1215	Digital Techniques 1 for Robotics	ELEX 1117*	ELEX 1117*
MATH 1342	Technical Math for Robotics	MATH 1431	
MECH 1104	Computer Aided Design	MECH 1102 or MECH 1000 and AICO 4044 or AICO 4048	
PHYS 1164	Physics for Robotics 1	PHYS 1143 or PHYS 1301	PHYS 1301
<b>Level 2 (January - May, 20 weeks)</b>			
ELEX 2205	AC Circuits for Robotics	ELEX 2105*	ELEX 2105*
ELEX 2220	Digital and Electronic Circuits	ELEX 2117 & 2120	ELEX 2117 & 2120
MATH 2342	Calculus for Robotics	MATH 2431	1) MATH 2001 and MATH 2002 and MATH 0099  2) MATH 2011 and MATH 0099  The two paths are for those students that attempted and failed MATH 2342. Before you decide to take any of the two paths, consult with the math department first.
MECH 1210	Manufacturing Processes		
PHYS 2164	Applied Physics 2 for Robotics		PHYS 2301
ROBT 1270	C Programming	ELEX 2125*	ELEX 2125*
<b>Level 3 (September - December, 15 weeks)</b>			
ELEX 3321	Electronics Circuits 2(Robotics)	ELEX 3120 (was ELEX 3320)	
MATH 3342	Transform Calculus(Robotics)		
MECH 3355	Fluid Power 1		
ROBT 3341	Robot Applications		
ROBT 3351	Automation Equipment		
ROBT 3356	Controller Systems		
<b>Level 4 (January - May, 20 weeks)</b>			
COMM 2464	Technical Writing 2 for Robotics		
ELEX 4336	Feedback Systems		

MECH 0460	Ethics for Technologists		
MECH 4455	Fluid Power 2 (15 weeks)		
OPMT 1184	Industrial Engineering		
ROBT 4451	Sensor Interfacing		
ROBT 4456	PLC Applications (15 weeks)		
ROBT 4491	Mechatronics Project		
		*65% min. grade for credit	*65% min. grade for credit