

PROGRAM: Mechatronics Engineering Technology – GSO AAS A40350A1 Advising Guide

FALL SEMESTER I					
8 Weeks Session 1	8 Weeks Session 2	16 Weeks Full Term	Course	Credit Hours	Program Notes
X			ATR-112 – Introduction to Automation	3	Fall Only
X			ELC-132 – Electrical Drawings	2	Fall Only
X			MAT-121 or MAT-171 <i>Pre-req: MAT-003 or MAT-035; co-req MAT-045P if needed</i>	3-4	
	X		ELC-131 – Circuit Analysis I <i>Pre-requisite: MAT-003 (P2 grade) or MAT-035</i>	4	Fall Only
	X		ENG-111 – Writing and Inquiry <i>Pre-req ENG-002 or ENG-025; Co-req ENG-045 if needed</i>	3	

SPRING SEMESTER I					
8 Weeks Session 1	8 Weeks Session 2	16 Weeks Full Term	Course	Credit Hours	Program Notes
X			MEC-130 – Mechanisms	3	Spring Only
X			PHY-131 – Physics – Mechanics <i>Pre-requisite: C or better in MAT-121 or MAT-171</i>	4	
X			ELN-229 – Industrial Electronics <i>Pre-requisite: ELC-112, ELC-131 or ELC-140</i>	4	Spring Only
	X		ELC-117 – Motors and Controls <i>Pre-requisite: ELC-112, ELC-131, or AHR-111</i>	4	Spring Only
	X		ELC-213 – Instrumentation <i>Pre-requisite: MAT-121 or MAT-171 and ELC-112 or ELC-131</i>	4	Spring Only

SUMMER SEMESTER					
8 Weeks	10 Weeks		Course	Credit Hours	Program Notes
X			CIS-110 – Introduction to Computers	3	
X			ISC-112 – Industrial Safety	2	Summer Only

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FALL SEMESTER II					
8 Weeks Session 1	8 Weeks Session 2	16 Weeks Full Term	Course	Credit Hours	Program Notes
X			PSY-150 – General Psychology <i>Pre-requisite: ENG-002 or ENG-025</i>	3	
X			HYD-110 – Hydraulics/Pneumatics I	3	Fall Only
	X		ELN-260 - Programmable Logic Controllers <i>Pre-requisite: ELC-131 and ATR-112</i>	4	Fall Only
	X		ELC-130 – Advanced Motors and Controls <i>Pre-requisite: ELC-111, ELC-112, ELC131, or ELC138 and ELC-117</i>	3	Fall Only
	X		DFT-151 – CAD I	3	Fall only

SPRING SEMESTER II					
8 Weeks Session 1	8 Weeks Session 2	16 Weeks Full Term	Course	Credit Hours	Program Notes
X			HUM-115 – Critical Thinking <i>Pre-requisite: DRE-098, ENG-002, ENG-111 or BSP-4002</i>	3	
X			ATR-212 – Industrial Robotics <i>Pre-requisite: ELN-131 and ELN-260 or ELC-128</i>	3	Spring Only
X			DFT-154 – Introduction to Solid Modeling <i>Pre-requisite: DFT-151</i>	3	Spring Only
	X		COM-120 – Introduction to Interpersonal Communication <i>Pre-req ENG-002 or ENG 025</i>	3	
	X		ELC-228 – PLC Applications <i>Pre-requisite: ELN-260 or ELC-131 and ATR-112 and ELC-128</i>	4	Spring Only
		X	WBL-111 – Work-based Learning I	1	Spring Only