

Cohort #	Harper College Registered Apprenticeship Program Curriculum Map Department of Labor Certificate: Electromechanical Technician AAS Degree: Manufacturing Technology – Mechatronics/ Automation	3-Year Program
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YEAR 1		YEAR 2		YEAR 3	
Fall 20XX= 9 credits		Fall 20XX=12 credits		Fall 20XX = 8 credits	
MFT 102 Intro to Mfg & Safety	4 cr.	ELT 110 Introductory Electronics	4 cr.	ELT 145 Variable Frequency Drives	2 cr.
MFT 104 Quality & Measurement	2 cr.	MFT 105 Machining Processes I	3 cr.	WLD 110 Welding I	3 cr.
MTH 097 Technical Math (Gen Ed)	3 cr.	SPE 101 Speech (Gen Ed)	3 cr.	ELT 135 Optics and Sensors	2 cr.
		ELT 143 Commercial Wiring	2 cr.	MFT 281 Special Topics	1 cr.
Start: August	End: December	Start: August	End: December	Start: August	End: December

Spring 20XX = 10 credits		Spring 20XX = 10 credits		Spring 20XX = 11 credits	
ELT 140 Programmable Logic Controllers (PLCs)	2 cr.	ELT 120 Introductory Industrial Electronics Maintenance	2 cr.	ELT 215 Industrial Control Systems	4 cr.
MFT 109 Intro to Mfg. Maintenance	2 cr.	MFT 120 Machining Processes II	3 cr.	ELT 240 Advanced PLC's	4 cr.
MFT 134 Print Reading for Industry	3 cr.	PHI 150 Business Ethics (Gen Ed)	3 cr.	PSY 101 Intro to Psychology (Gen Ed)	3 cr.
ENG 101 English (Gen Ed)	3 cr.	ELT 144 AC & DC Motors	2 cr.		
Start: January	End: May	Start: January	End: May	Start: January	End: May

Total Credits Earned: 60