

Cohort #	Harper College Registered Apprenticeship Program Curriculum Map Department of Labor Certificate: Industrial Maintenance Mechanic AAS Degree: Manufacturing Technology – Mechatronics/Automation				3-Year Program	
YEAR 1		YEAR 2		YEAR 3		
Fall 20XX = 9 credits		Fall 20XX = 10 credits		Fall 20XX = 8 credits		
Semester 1		Semester 3		Semester 5		
MFT 102 Intro to Mfg & Safety	4 cr.	ELT 110 Introductory Electronics	4 cr.	MFT 121 Machining Processes III	3 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 143 Commercial Wiring	2 cr.	
<b>Start: August</b>	<b>End: December</b>	<b>Start: August</b>	<b>End: December</b>	<b>Start: August</b>	<b>End: December</b>	
<b>Spring 20XX = 11 credits</b>		<b>Spring 20XX = 11 credits</b>		<b>Spring 20XX = 11 credits</b>		
Semester 2		Semester 4		Semester 6		
ELT 140 Programmable Logic Controllers (PLCs)	3 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.	WLD 210 Welding II	3 cr.	
MFT 134 Print Reading for Industry	3 cr.	PHI 150 Business Ethics (Gen Ed)	3 cr.	MFT 123 Intro to CNC	4 cr.	
ENG 101 English (Gen Ed)	3 cr.	PSY 101 Intro to Psychology (Gen Ed)	3 cr.			
<b>Start: January</b>	<b>End: May</b>	<b>Start: January</b>	<b>End: May</b>	<b>Start: January</b>	<b>End: May</b>	

Total Credits Earned: 60