

Industrial Systems Technology – Industrial Pathway (A50240B) – 72-75 Credit Hours

2018-2019

Fall – 1 st Year				
Course Number	Course Name	Lec	Lab	Credit
BPR 111	Print Reading	1	2	2
CIS 110	Introductions to Computers (S)	2	2	3
ENG 111	Writing and Inquiry	3	0	3
MAC 111	Machining Technology I *** (Fall Even)	2	12	6
MAC 114	Intro to Metrology (Fall Even)	2	0	2
MAC 151	Machining Calculations (Fall Even)	1	2	2
Total				18

Fall – 2 nd Year				
Course Number	Course Name	Lec	Lab	Credit
ELC 111	Intro to Electricity <i>or</i>			3-5
ELC 112	DC/AC Electricity			
MAC 241	Jigs & Fixtures I (Fall Odd)	2	6	4
MNT 110	Intro to Maint Procedures (Fall Even)	1	3	2
PHY 110	Conceptual Physics <i>or</i>			3-4
	Mathematics Elective			
	Social/Behavioral Science Elective			3
Total				15-18

Major Electives				
Course Number	Course Name	Lec	Lab	Credit
ATR 112	Intro to Automation	2	3	3
DFT 151	CAD I	2	3	3
DFT 152	CAD II	2	3	3
ELC 215	Electrical Maintenance	2	3	3
ELN 231	Industrial Controls	2	3	3
MAC 113	Machining Technology III	2	12	6
MAC 243	Die Making I	2	6	4
MNT 111	Maintenance Practices	2	2	3

- ★ - Designates classes preparing students to sit for electrical contracting limited license
- ★★ - Designates classes preparing students to sit for OSHA basic safety certification tests
- ★★★ - Designates classes preparing students to sit for NIMS Level I credentials

Spring – 1 st Year				
Course Number	Course Name	Lec	Lab	Credit
HYD 110	Hydraulics/Pneumatics (S)	2	3	3
MAC 112	Machining Technology II ***	2	12	6
ELC 115	Industrial Wiring (S) ★	2	6	4
	Major Elective (S)			3
	Communications Elective (S)			3
Total				19

Spring – 2 nd Year				
Course Number	Course Name	Lec	Lab	Credit
ISC 112	Industrial Safety ★★	2	0	2
ELC 117	Motors and Controls	2	6	4
ELC 128	Introduction to PLC	2	3	3
MEC 130	Mechanisms	2	2	3
WLD 112	Basic Welding Processes	1	3	2
	Humanities/Fine Arts Elective	3	0	3
	Major Elective			3
Total				20

Major Electives				
Course Number	Course Name	Lec	Lab	Credit
WBL 110	World of Work	1	0	1
WBL 111	Work-Based Learning I (and)	0	0	1
WBL 115	Work-Based Learning Seminar I	1	0	1
WLD 110	Cutting Processes	1	3	2
WLD 115	SMAW (Stick) Plate	2	9	5
WLD 121	GMAW (MIG) FCAW/Plate	2	6	4
WLD 212	Inert Gas Welding	1	6	3

- (S) – Designates recommended classes for students starting in spring of the first year