

**Curriculum Sequence Checklist  
Industrial Systems Technology – A50240**

**Course and Hour Requirements:**

**First Semester (Fall)**

Course:	Course Name:	Prereq/Coreq	Class	Lab	Clin/Exp	Credit
ACA 122	College Transfer Success	(NONE)	0	2		1
ELC 131	Circuit Analysis I	(ELC 131A Coreq)	3	3		4
BPR 111	Print Reading	(None)	1	2		2
EGR 125	Application Software for Tech	(NONE)	1	2		2
ELC 113	Residential Wiring	(NONE)	2	6		4
MAT 121	Algebra/Trigonometry I	(DMA 010,DMA 020, DMA 030,DMA 040,DMA 050 & DMA 060)	2	2		3
<b>OR</b>						
MAT 171	Precalculus Algebra	(DMA 010,DMA 020, DMA 030,DMA 040,DMA 050 & DMA 060,DMA 070,DMA 080 <i>or</i> MAT 121)	3	2		4
<b>Semester Total</b>						<b>16 or 17</b>

**Second Semester (Spring)**

Course:	Course Name:	Prereq/Coreq	Class	Lab	Clin/Exp	Credit
AHR 112	Heating Technology	(NONE)	2	4		4
ELC 115	Industrial Wiring	(NONE)	2	6		4
ENG 110	Freshman Composition	(DRE 097)	3	0		3
<b>OR</b>						
ENG 111	Writing and Inquiry	(DRE 098)	3	0		3
ISC 112	Industrial Safety		2	2		2
MNT 110	Intro. to Maintenance Proceed.		1	3		2
WLD 112	Basic Welding Processes		1	3		2
<b>Semester Total</b>						<b>17</b>

**Third Semester (Summer)**

Course:	Course Name:	Prereq/Coreq	Class	Lab	Clin/Exp	Credit
DFT 151	CAD I	(Cis 110 <i>or</i> CIS113 <i>or</i> Egr 125)	3	2		3
ELN 260	Pro Logic Controllers	(None)	3	3		4
<b>Semester Total</b>						<b>7</b>

**Fourth Semester (Fall)**

Course:	Course Name:	Prereq/Coreq	Class	Lab	Clin/Exp	Credit
ATR 280	Robotic Fundamentals	(None)	3	2		4
AHR 110	Intro. To Refrigeration	(None)	2	6		5

HYD 110	Hydraulics/Pneumatics I	(DMA 010, DMA 020, DMA 030)	2	3		3
MAC 141	Machining Applications	(none)	2	6		4
Elective	Choose 2-4 hours from list	(Course dependant)	0-3	0-6	0	0-4
<b>Semester Total</b>						16-20

**Fifth Semester (Spring)**

Course:	Course Name:	Prereq/Coreq	Class	Lab	Clin/Exp	Credit
COM 110 <i>Or</i> COM 231	Intro to Communication Public Speaking	(RED 090) (RED 090)	3 3	0 0		3 3
Humanities /Fine Arts	Arts Core Elective	(Course Dependent)	3	0		3
ELC 117	Motors and Controls	(ELC 111 <i>or</i> ELC 112 <i>or</i> ELC 131)	2	6		4
Social/Behavioral Science	Core Elective	(Course Dependant)	3	0		3
Elective	Choose 2-4 hours from list	(Course dependant)	0-3	0-6	0	0-4
<b>Semester Total</b>						13-17

**Other Major Elective Courses (Select 4 Hours from the following courses)**

Course:	Course Name:	Prereq/Coreq	Class	Lab	Clin/Exp	Credit
ATR 281	Automated Manufacturing	(ATR 280)	3	2		4
ELC 131A	Circuit Analysis I Lab	(ELC 131 Coreq)	0	3		1
ELC 228	PLC Applications	(ELN 260)	2	6		4
MAC 121	Introduction to CNC	(None)	2	0		2
MAC 141A	Machining Application Lab I	(Mac-141)	0	6		2
MAC 142	Machining Application II	(Mac-141)	2	6		4
MAC 171	Measure/Material & Safety	(Fall)	0	2		1

<b>Total Hours for Graduation</b>	<b>72-74</b>
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**Advisors:**

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