



Program Completion Guide  
**ASSOCIATE IN APPLIED SCIENCE - INDUSTRIAL SYSTEMS TECHNOLOGY (A50240)**  
**Industrial Maintenance Technician**  
*Effective 2022 Fall:*

***This program is in Teach-Out Status. No new students will be enrolled. Current students must complete the program by 2024 Spring. The Last semester these classes will be offered will be 2024 Spring.***

Student Name: \_\_\_\_\_ ID #: \_\_\_\_\_ Date of Enrollment: \_\_\_\_\_

Advisor Name: \_\_\_\_\_ Contact Information: \_\_\_\_\_

**Note: Developmental coursework may be required. Please refer to the Developmental Education Guide for additional information.**

**A. Industrial Systems Technology Certificate (C50240) Course Requirements 14-16 credit hours: Complete Section A.**

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
BPR 111 Print Reading*	2	(C, Dp) 1 <sup>st</sup> year - fall (Dg) 1 <sup>st</sup> year - spring	None		
ELC 112 DC/AC Electricity* (required for diploma and degree) or MEC 111 Machine Processes I* (required for diploma and degree)	5 3	(C, Dp) 1 <sup>st</sup> year - fall (Dg) 1 <sup>st</sup> year - spring (C, Dp) 1 <sup>st</sup> year - fall (Dg) 2 <sup>nd</sup> year - fall	Pre: MAT 003 or BSP 4003		
HYD 110 Hydraulics/Pneumatics I*	3	(C, Dg) 1 <sup>st</sup> year - spring (Dp) 2 <sup>nd</sup> year - fall	Pre: MAT 003 or BSP 4003		
ISC 112 Industrial Safety*	2	(C, Dp) 1 <sup>st</sup> year - spring (Dg) 1 <sup>st</sup> year - fall	None		
MNT 110 Intro to Maintenance Procedures*	2	(C, Dp) 1 <sup>st</sup> year - spring (Dg) 1 <sup>st</sup> year - fall	None		
WLD 112 Basic Welding Procedures*	2	(C) 1 <sup>st</sup> year - fall (Dp, Dg) 2 <sup>nd</sup> year - fall	None		

Dg=Degree      Dp=Diploma      C=Certificate

**B. Industrial Systems Technology Diploma (D50240) Course Requirements 38 credit hours: Complete Sections A, B, and Social/Behavioral Sciences elective.**

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
ACA 122 College Transfer Success	1	1 <sup>st</sup> year - fall	None		
ENG 111 Writing and Inquiry	3	(Dg) 1 <sup>st</sup> year - fall (Dp) 1 <sup>st</sup> year - summer	Pre: ENG 002 or BSP 4002 Co: ACA 122, ENG 011		
ELC 125 Diagrams and Schematics	2	1 <sup>st</sup> year - spring	None		



MEC 130 Mechanisms*	3	(Dp, Dg) 2 <sup>nd</sup> year - fall	Pre: ENG 002 or BSP 4002 or ENG 111		
ELC 117 Motors and Controls*	4	(Dp, Dg) 2 <sup>nd</sup> year - spring	Pre: ELC 112 or ELC 131		
ELC 128 Intro to PLC*	3	(Dp, Dg) 2 <sup>nd</sup> year - spring	Pre: ELC 112 or ELC 131		

Dg=Degree      Dp=Diploma

**C. Industrial Systems Technology Associate in Applied Science Degree (A50240) Course Requirements 65 credit hours: Complete Sections A, B, and C.**

Courses	Cr.	Recommended Semester	Prerequisites/ Corequisites	Semester Registered/ Planned	Semester Completed/ Grade
CIS 110 Introduction to Computers	3	1 <sup>st</sup> year – fall	Pre: ENG 002 or BSP 4002 or ENG 111		
MAT 143 Quantitative Literacy	3	1 <sup>st</sup> year – fall	Pre: MAT 003 Tier 2 or BSP 4003 Tier 2, ENG 002 or BSP 4002 or ENG 111 Co: ACA 122, MAT 043 with MAT 003		
COM 231 Public Speaking or ENG 112 Writing/Research in the Disciplines	3	1 <sup>st</sup> year - spring	Pre: ENG 002 or BSP 4002 or ENG 111 Pre: ENG 111		
AHR 120 HVACR Maintenance	2	1 <sup>st</sup> year – summer	None		
ELN 229 Industrial Electronics	4	2 <sup>nd</sup> year - fall	Pre: ELC 112 or ELC 131		
ELC 120 Introduction to Wiring*	3	2 <sup>nd</sup> year - fall	None		
MNT 230 Pumps and Piping Systems	2	2 <sup>nd</sup> year - fall	None		
MNT 240 Industrial Equipment Troubleshooting	2	2 <sup>nd</sup> year - spring	Pre: ELC 112 or ELC 131 Co: ELC 128 or ELN 260		
WBL 111 Work-Based Learning I	1	2 <sup>nd</sup> year – spring	Pre: 9 or 14 SHC in the major core courses depending on program Co: WBL 115		
WBL 115 Work-Based Learning Seminar I	1	2 <sup>nd</sup> year – spring	Pre: 9 or 14 SHC in the major core courses depending on program Co: WBL 111		

**Electives: (All degree seeking students must take one Humanities/Fine Arts and one Social/Behavioral Sciences elective from lists below unless a specific course is required above.)**

<b>Humanities/Fine Arts Electives (3 credit hours)** (Courses with the following prefixes will satisfy this requirement: ART, DRA, ENG (literature courses only), HUM, MUS, PHI, REL, and SPA (Intermediate Spanish I only).</b>			
Courses offered at RCC: ART 111, DRA 111, ENG 131, ENG 231, ENG 232, MUS 110, PHI 240, REL 211, REL 212			
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	(Dg) 1 <sup>st</sup> year – summer		

<b>Social/Behavioral Sciences Electives (3 credit hours)** (Courses with the following prefixes will satisfy this requirement: ANT, ECO+, GEO, HIS, POL, PSY, and SOC) +Some business and accounting curricula require economics and do not accept ECO courses as fulfillment of this elective requirement.)</b>			
Courses offered at RCC: ANT 220, HIS 111, HIS 112, HIS 131, HIS 132, PSY 150, PSY 241, SOC 210, SOC 213			
Course	Recommended Semester	Semester Registered/Planned	Semester Completed/Grade
	(Dp) 1 <sup>st</sup> year – summer (Dg) 2 <sup>nd</sup> year – spring		



**NOTES:** \*All courses must be completed with a grade of “C” or better.  
\*\*See course catalog for prerequisite and/or corequisite requirements.

**Students please read the following and sign below.**

I understand that as an RCC student, I am ultimately responsible for my schedule. I understand that I must complete each course with a grade of “C” or better and follow the established course sequence or my ability to graduate on time may be affected.

My advisor has information regarding other colleges and transfer opportunities that I can investigate after completing my degree/diploma/certificate, and I understand that if I would like more information I can schedule an appointment with him/her.

Student Name: \_\_\_\_\_ Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Advisor Name: \_\_\_\_\_ Advisor Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Student Name: \_\_\_\_\_ Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Advisor Name: \_\_\_\_\_ Advisor Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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Student Name: \_\_\_\_\_ Student Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Advisor Name: \_\_\_\_\_ Advisor Signature: \_\_\_\_\_ Date: \_\_\_\_\_