

PROGRAM PLANNING GUIDE

FACILITY MAINTENANCE TECHNOLOGY A50190

Replaces Curriculum Schedule with Revision Date: FA2024

Date Revised: FA2025

CURRICULUM BY SEMESTER

						Hours Per Week		Credits	Semesters Offered
Course No.		Course Title	Pre-Requisites	Co-Requisites	Class	Lab			
Fall Semester 1									
ACA	115	Success & Study Skills	None	None	0	2	1	FA, SP	
AHR	110	Introduction to Refrigeration	None	None	2	6	5	FA, SP	
AHR	112	Heating Technology	None	None	2	4	4	FA, SP	
ELC	112*	DC/AC Electricity	None	None	3	6	5	FA, SP	
ELC	118	National Electric Code	None	None	1	2	2	FA, SP	

Spring Semester 1								
AHR 120	HVACR Maintenance	None	None		1	3	2	SP
BPR 130	Print Reading - Construction	None	None		3	0	3	FA, SP, SU
ELC 114	Commercial Wiring	ELC 118	None		2	6	4	FA, SP
ELC 127	Software for Technicians	None	None		1	3	2	SP, SU
	English Elective	See Below					3	

Summer Semester 1								
BAT 111	Building Automation Systems	None	None		1	3	2	SU
	Major Elective	See Below					5	

Fall Semester 2								
AHR 215	Commercial HVAC Controls	AHR-111, ELC-111, or ELC 112	None		1	3	2	FA
BAT 221	BAS Networking	BAT 111	None		2	3	3	FA
ELN 235	Data Communication Systems	ELC 131 OR ELC 112	None		3	3	4	FA, SP
MNT 110	Intro to Maintenance Procedures	None	None		1	3	2	FA, SU
	Communication Elective	See Below					3	

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Spring Semester 2								
BAT	251	Building Automation Controls	BAT 111	None	2	3	3	SP
		Humanities Elective	See Below				3	
		Math Elective	See Below				3	
		Social Science Elective	See Below				3	

Graduation Requirement Credit Hours: 66

*ELC 131 is an allowable substitution.

MAJOR ELECTIVES

					Hours Per Week		Credits	Semesters Offered
Course No.	Course Title			Class	Lab			
Major Electives		Credit Hours Needed: 5						
AHR	111	HVACR Electricity	None	None	2	2	3	FA, SP, SU
AHR	113	Comfort Cooling	None	None	2	4	4	FA, SP
BAT	212	BAT Logic and Programming	BAT 111	None	2	3	3	FA
ELC	113	Residential Wiring	None	ELC 118	2	6	4	FA, SP
ELC	117	Motors and Controls	ELC 112 or ELC 131	None	2	6	4	FA, SP
ELC	128	Intro to Programmable Logic Controller	ELC 117 or ELN 231	None	2	3	3	SU
ELN	260	Prog Logic Controllers	None	None	3	3	4	FA, SP
ELN	231	Industrial Controls	ELC 112 OR ELC 131	None	2	3	3	SU
WBL	111DL	Work-Based Learning I	14 program credits hours	None	0	10	1	FA, SP, SU
WBL	112DL	Work-Based Learning I	14 program credits hours	None	0	20	2	FA, SP, SU

ENGLISH ELECTIVES

					Hours Per Week		Credits	Semesters Offered
Course No.	Course Title			Class	Lab			
Major Electives		Credit Hours Needed: 3						
ENG	110	Freshman Composition	ENG 002 (If required)	None	3	0	3	FA, SP, SU
ENG	111	Writing and Inquiry (University Transfer)	ENG 025 (If required)	ENG 045 (If required)	3	0	3	FA, SP, SU

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COMMUNICATION ELECTIVES

					Hours Per Week		Credits	Semesters Offered
Course No.	Course Title				Class	Lab		
Major Electives Credit Hours Needed: 3								
COM 110	Introduction to Communication	ENG 002 or ENG 025 (If required), ENG 110	None		3	0	3	FA, SP, SU
COM 120	Introduction to Communication	ENG 002	None		3	0	3	FA, SP, SU
COM 231	Public Speaking	ENG-111; Minimum grade C	None		3	0	3	FA, SP, SU

HUMANITIES ELECTIVES

					Hours Per Week		Credits	Semesters Offered
Course No.	Course Title				Class	Lab		
Major Electives Credit Hours Needed: 3								
HUM 110	Technology and Society	ENG 002 or ENG 025 (If required)	None		3	0	3	FA, SP, SU
HUM 115	Critical Thinking	ENG 002, ENG 025, or ENG 111	None		3	0	3	FA, SP, SU
HUM 121	The Nature of America	None	None		3	0	3	FA, SP, SU

SOCIAL SCIENCE ELECTIVES

					Hours Per Week		Credits	Semesters Offered
Course No.	Course Title				Class	Lab		
Major Electives Credit Hours Needed: 3								
PSY 118	Interpersonal Psychology	None	None		3	0	3	FA, SP, SU
PSY 150	General Psychology (University Transfer)	ENG 002 or ENG 025 (If required)	None		3	0	3	FA, SP, SU

MATH ELECTIVES

					Hours Per Week		Credits	Semesters Offered
Course No.	Course Title				Class	Lab		
Major Electives Credit Hours Needed: 3								
MAT 110	Math Measurement and Literacy	MAT 003, MAT 010, or MAT 045M (If required)	None		2	2	3	FA, SP, SU

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MAT	121	Algebra/Trigonometry I	MAT 003, MAT 021, MAT 035, or MAT 045A (If required)	None	2	2	3	FA, SP, SU
MAT	171	Precalculus Algebra (University Transfer)	ENG 002 or ENG 025 (If required)	None	3	2	4	FA, SP, SU