

PROGRAM PLANNING GUIDE

AIR CONDITIONING, HEATING, AND REFRIGERATION TECHNOLOGY A35100C - Building Automation Track

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								
AHR	110	Introduction to Refrigeration	None	None	2	6	5	FA, SP
AHR	111	HVACR Electricity	None	None	2	2	3	FA, SP, SU
AHR	112	Heating Technology	None	None	2	4	4	FA, SP
AHR	180	HVACR Customer Relations	None	None	1	0	1	FA, SP
AHR	213	HVACR Building Code	None	None	1	2	2	FA, SP
ACA	115	Success & Study Skills	None	None	0	2	1	FA, SP

Spring Semester 1								
AHR 113	Comfort Cooling	None	None	2	4	4		FA, SP
AHR 114	Heat Pump Technology	AHR 110 or AHR 113	None	2	4	4		FA, SP
AHR 133	HVAC Servicing	AHR 112 or AHR 113	None	2	6	4		FA, SP
	English Elective			-	-	3		
	Major Elective					1		

Summer Semester 1								
AHR 115	Refrigeration Systems	AHR 110	None	1	3	2		SU
AHR 125	HVACR Electronics	AHR 111 or ELC 111 or ELC 112	None	2	2	3		SU
BAT 111	Building Automation Systems	None	None	1	3	2		SU
	Social Science Elective			-	-	3		

Fall Semester 2								
AHR 215	Commercial HVAC Controls	AHR 111 or ELC 111 or ELC 112	None	1	3	2		FA
BAT 212	BAT Logic and Programming	BAT 111	None	2	3	3		FA
BAT 221	BAS Networking	BAT 111	None	2	3	3		FA
	Math Elective			-	-	3		
	Major Elective					2		

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Spring Semester 2							
		Communication Elective			-	-	3
		Humanities Elective			-	-	3
AHR	211	Residential System Design	None	None	2	2	3 FA, SP
BAT	231	BAS Integration	BAT 111	None	3	3	4 SP
BAT	251	Building Automation Controls	BAT 111	None	2	3	3 SP

Graduation Requirement Credit Hours: 71

MAJOR ELECTIVES

				Hours Per Week		Credits	Semesters Offered
Course No.	Course Title			Class	Lab		
Major Electives Credit Hours Needed: 3							
AHR	160	Refrigerant Certification	None	None	1	0	1 SU
AHR	250	HVAC System Diagnostics	AHR 133	None	0	4	2 FA, SP
AHR	212	Advanced Comfort Systems	AHR 114	None	2	6	4 FA
AHR	235	Refrigeration Design	AHR 110	None	2	2	3 FA
WBL	111DD	Work-Based Learning I	14 program credits hours	None	0	10	1 FA, SP, SU
WBL	112DD	Work-Based Learning I	14 program credits hours	None	0	20	2 FA, SP

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

COMMUNICATION ELECTIVES

				Hours Per Week		Credits	Semesters Offered
Course No.	Course Title			Class	Lab		
Major Electives Credit Hours Needed: 3							
COM	120	Intro Interpersonal Communication	ENG 002 or ENG 025 (If required)	None	3	0	3 FA, SP, SU
COM	231	Public Speaking	ENG 111	None	3	0	3 FA, SP, SU

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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

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
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) MAT 003, MAT 035, MAT 071, or MAT 045P (If required)	None		3	2	4	FA, SP, SU