PROGRAM PLANNING GUIDE

AIR CONDITIONING, HEATING, AND REFRIGERATION TECHNOLOGY A35100A - Commercial Refrigeration Track

Replaces Curriculum Schedule with Revision Date: FA2024 Date Revised: FA2025

Repla	ces Curric	ulum Schedule with Revision Date:	FA2024			Date	Revised:	FA2025
			CURRICULUM BY SEMESTER	₹				
_					Hours P	Hours Per Week		Semesters
Cou	ırse No.	Course Title	Pre-Requisites	Co-Requisites	Class	Lab	Credits	Offered
Fall Se	emester 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	Semeste	r_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	
Summ	ner Semes	ter 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 Se	emester 2		<u>.</u>					
AHR	211	Residential System Design	None	None	2	2	3	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
		Math Elective			-	_	3	
		Major Elective					2	

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Spring Semester 2									
		Communication Elective			-	-	3		
		Humanities Elective			-	-	3		
REF	116	Commercial Systems I	AHR 115	None	2	6	4	FA, SP	
REF	117	Refrigeration Controls	AHR 110 or AHR-111 or ELC-111	None	2	6	4	FA, SP	

Graduation Requirement Credit Hours: 71

MAJOR ELECTIVES									
	Hours Per Week						Semesters		
Cou	rse No.	Course Title			Class	Lab	Credits	Offered	
Major	ajor 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	
BAT	231	BAS Integration	BAT 111	None	3	3	4	SP	
BAT	251	Building Automation Controls	BAT 111	None	2	3	3	SP	
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 Class Lab C			Semesters		
Cou	rse No.	Course Title					Credits	Offered		
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	ENG 025 (If required)	ENG 045	3	0	3	FA, SP, SU		
		Transfer)		(If required)						

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

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

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

	MATH ELECTIVES									
					Hours Per Week			Semesters		
Cou	rse No.	Course Title			Class	Lab	Credits	Offered		
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		