

**Air Conditioning Technology HVAC Mechanic
Maysville Community & Technical College**

**Open Admissions
Diploma**

Rowan Campus Program Coordinator: Rob Hamm 606/783-1538 ext. 66373-Office: Room B207

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Maysville Campus Instructor Matthew Watkins 606-759-7141 ext. 66141-Office Technical Bldg T104

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Montgomery Campus Instructor- Adam Hawkins (859) 499-6282 ext. 66512 - Office: Room M124

E-mail: adam.hawkins@kctcs.edu

[Academic Plan Code: 4702014009; Academic Program Code: ENTC; CIP Code: 47020100]

Student Name _____ Student ID _____

Prerequisite Information: ACR 100 & ACR101 (taught only in the fall semester) must be taken prior to other ACR specific courses

General Education & Support Classes	Credit Hours	Semester Taken
Choose one: Written Communication, Oral Communication OR Humanities/Heritage	3	
Choose one: Social/Behavioral Sciences, Natural Sciences OR Quantitative Reasoning	3	
Computer/Digital Literacy course OR Demonstrated competency	0-3	

Core Requirements	Credit Hours	Semester Taken
ACR 100 Refrigeration Fundamentals	3	
ACR 101 Refrigeration Fundamentals lab	2	
ACR 102 HVAC Electricity	3	
ACR 103 HVAC Electricity lab OR Comparable Electrical Course*	2 (4-5)	
ACR 130 Electrical Components	3	
ACR 131 Electrical Components lab	2	
ACR 170 Heat Load/Duct Design OR	3	
ACR209 Manual N Commercial Load Calculation & Design	4	
ACR 250 Cooling & Dehumidification	3	

Core Requirements <i>continued</i>	Credit Hours	Semester Taken
ACR 251 Cooling & Dehumidification lab	2	
ACR 260 Heating & Humidification	3	
ACR 262 Heating & Humidification lab	2	
ACR 270 Heat Pump Application	3	
ACR 271 Heat Pump Application lab OR	2	
ACR 207 Commercial HVAC Systems	(5)	
ACR291Special Problems OR	(1)	
ACR298 Practicum	(2)	
Electives (Technical)	8-11	

47-56 TOTAL DIPLOMA CREDIT HOURS

Air Conditioning Technology Description:

Installing and servicing heating, air conditioning and refrigeration equipment is the focus of this program. Academic courses, theory courses, and laboratory experiences are designed to promote success in the air conditioning field.

**Open Admission
Certificates**

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ENVIRONMENTAL CONTROL SYSTEM SERVICER

[Academic Plan Code: 4702013039; Academic Program Code: ENTC; CIP Code: 47020100]

Core Requirements	Credit Hours	Semester Taken	Core Requirements	Credit Hours	Semester Taken
ACR 100 Refrigeration Fundamentals	3		ACR 130 Electrical Components	3	
ACR 101 Refrigeration Fundamentals Lab	2		ACR 131 Electrical Components Lab	2	
ACR 102 HVAC Electricity	3		ACR 250 Cooling and Dehumidification	3	
ACR 103 HVAC Electricity lab OR Comparable Electrical Course*	2 (4-5)		ACR 251 Cooling and Dehumidification Lab	2	
			ACR 260 Heating and Humidification	3	
			ACR 262 Heating and Humidification Lab	2	
24-25 Credit Hours Total					

ENVIRONMENTAL SYSTEM REPAIR HELPER

[Academic Plan Code: 4702013049; Academic Program Code: ENTC; CIP Code: 47020100]

Core Requirements	Credit Hours	Semester Taken	Core Requirements	Credit Hours	Semester Taken
ACR 100 Refrigeration Fundamentals	3		Choose one with lab: ACR 102 HVAC Electricity 3 AND ACR 103 HVAC Electricity Lab 2 OR ACR 130 Electrical Components AND (3) ACR 131 Electrical Components Lab (2) OR Comparable Electrical Course*	3	
ACR 101 Refrigeration Fundamentals Lab	2			2	
				(3)	
				(2)	
				(4-5)	
9-10 Credit Hours Total					

DOMESTIC AIR CONDITIONER AND FURNACE INSTALLER

[Academic Plan Code: 4702013029; Academic Program Code: ENTC; CIP Code: 47020100]

Core Requirements	Credit Hours	Semester Taken	Core Requirements	Credit Hours	Semester Taken
ACR 100 Refrigeration Fundamentals	3		ACR 250 Cooling and Dehumidification	3	
ACR 101 Refrigeration Fundamentals Lab	2		ACR 251 Cooling and Dehumidification Lab	2	
ACR 102 HVAC Electricity	3		ACR 260 Heating & Humidification	3	
			ACR 262 Heating and Humidification Lab	2	
ACR 103 HVAC Electricity Lab	2		ACR 270 Heat Pump Application	3	
OR			ACR 271 Heat Pump Application Lab	2	
Elective (Technical) (4-5)	(4-5)				
ACR 130 Electrical Components	3		ACR 290 Journeyman Preparation	3	
ACR 131 Electrical Components Lab	2				
ACR 170 Heat Load/Duct Design OR	3				
ACR209 Manual N Commercial Load Calculation & Design	4				
35-36 Credit Hours Total					

REFRIGERATION MECHANIC

[Academic Plan Code: 4702013059; Academic Program Code: ENTC; CIP Code: 47020100]

Core Requirements	Credit Hours	Semester Taken	Core Requirements	Credit Hours	Semester Taken
ACR 100 Refrigeration Fundamentals	3		ACR 200 Commercial Refrigeration	3	
ACR 101 Refrigeration Fundamentals Lab	2		ACR 201 Commercial Refrigeration Lab	2	
ACR 102 HVAC Electricity 3	2		ACR 210 Ice Machines	3	
ACR 103 HVAC Electricity Lab OR	3				
Elective (Technical)	(4-5)				
ACR 130 Electrical Components	3		ACR 250 Cooling and Dehumidification	3	
ACR 131 Electrical Components Lab	2		ACR 251 Cooling and Dehumidification Lab	2	
27-28 Credit Hours Total					

Maysville Community & Technical College

More detailed and updated information may be available from the KCTCS Course Catalog

KCTCS is an equal opportunity employer and education institution.

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CHILLER MAINTENANCE

[Academic Plan Code: 4702013089; Academic Program Code: ENTC; CIP Code: 47020100]

Core Requirements	Credit Hours	Semester Taken	Core Requirements	Credit Hours	Semester Taken
ACR 100 Refrigeration Fundamentals	3				
ACR 101 Refrigeration Fundamentals Lab	2				
ACR 102 HVAC Electricity 3	2				
ACR 103 HVAC Electricity Lab OR	3				
ACR208 Chillers	5				
ACR209 Manual N Load Calculation & Design	4				
19 Credit Hours Total					

BOILER MAINTENANCE

[Academic Plan Code: 4702013079; Academic Program Code: ENTC; CIP Code: 47020100]

Core Requirements	Credit Hours	Semester Taken	Core Requirements	Credit Hours	Semester Taken
ACR 100 Refrigeration Fundamentals	3				
ACR 101 Refrigeration Fundamentals Lab	2				
ACR 102 HVAC Electricity 3	2				
ACR 103 HVAC Electricity Lab OR	3				
ACR206 Boilers	5				
ACR207 Commercial HVAC Systems	5				
20 Credit Hours Total					