

AIR CONDITIONING TECHNOLOGY - AAS

Offered at: Big Sandy Community and Technical College, Bluegrass Community and Technical College, Elizabethtown Community and Technical College, Gateway Community and Technical College, Madisonville Community College, Owensboro Community and Technical College, Southcentral Kentucky Community and Technical College

Program Plan Number: 4702017019

Curriculum Effective Spring Semester

Students enrolled in the Air Conditioning Technology program must achieve a minimum grade of "C" in each technical course.

Course	Title	Credits
General Education		
Quantitative Reasoning		3
Natural Sciences		3
Social/Behavioral Sciences		3
Heritage/Humanities		3
Written Communication		3
Subtotal		15
Technical Courses		
Digital Literacy Course or demonstrated competency ¹		0-3
ACR 100	Refrigeration Fundamentals	3
ACR 101	Refrigeration Fundamentals Lab	2
Select one of the following two options:		4-5
ACR 102	HVAC Electricity	
& ACR 103	and HVAC Electricity Lab	
Comparable Electrical Course		
Subtotal		9-13
General Education and Technical Subtotal		24-28

Students must complete one of the tracks listed below to complete the AAS requirements.

¹ Digital Literacy course - 3 credit hours or Demonstrated Competency - 0 credit hours

Air Conditioning Technology Track

Offered at: Big Sandy Community and Technical College, Bluegrass Community and Technical College, Elizabethtown Community and Technical College, Gateway Community and Technical College, Madisonville Community College, Owensboro Community and Technical College, Southcentral Kentucky Community and Technical College

Program Plan Number: 470201701

Course	Title	Credits
General Education and Technical Core Subtotal		24-28
ACR 130	Electrical Components	3
ACR 131	Electrical Components Lab	2

ACR 170	Heat Load/Duct Design	3
ACR 250	Cooling and Dehumidification	3
ACR 251	Cooling and Dehumidification Lab	2
ACR 260	Heating and Humidification	3
ACR 262	Heating and Humidification Lab	2
ACR 270	Heat Pump Application	3
ACR 271	Heat Pump Application Lab	2
ACR 290	Journeyman Preparation	3
Electives		10-12
Total Credits		60-66

Commercial Air Conditioning Technology Track

Offered at: Big Sandy Community and Technical College, Bluegrass Community and Technical College, Madisonville Community College, Owensboro Community and Technical College

Program Plan Number: 470201702

Course	Title	Credits
General Education and Technical Core Subtotal		24-28
EET 270	Electrical Motor Controls I	2
EET 271	Electrical Motor Controls I Lab	2
ACR 206	Boilers	5
ACR 207	Commercial HVAC Systems	5
ACR 208	Chillers	4
ACR 209	Manual N Commercial Load Calculation and Design	4
ACR 290	Journeyman Preparation	3
Technical Electives		11-13
Total Credits		60-66

Commercial Systems and Building Controls Technology Track

Offered at: Big Sandy Community and Technical College, Bluegrass Community and Technical College, Owensboro Community and Technical College

Program Plan Number: 470201703

Course	Title	Credits
General Education and Technical Core Subtotal		24-28
CIT 160	Intro to Networking Concepts	4
EET 270	Electrical Motor Controls I	2
EET 271	Electrical Motor Controls I Lab	2
EET 276	Programmable Logic Controllers	2
EET 277	Programmable Logic Controllers Lab	2
ACR 206	Boilers	5
ACR 207	Commercial HVAC Systems	5
ACR 208	Chillers	4
ACR 237	Building Controls I	5
ACR 238	Building Controls II	5

ACR 290	Journeyman Preparation	3
Total Credits		63-67