



Associate in Occupational Technology: Heating & Air Conditioning Technology					
Semester	Course Prefix	Course Description	AOT	Long Cert	Complete
1 st Semester	ASC 111	Refrigeration Principles	3	3	
	ASC 121	Principles of Electricity for HVAC	3	3	
	ASC 122	HVACR Electrical Circuits	3	3	
	MTH 116	Mathematical Applications	3	3	
2 nd Semester	ASC 113	Refrigeration Piping Practices	3	3	
	ASC 123	HVACR Electrical Components	3	3	
	ASC 147	Refrigeration Transition & Recovery	3	3	
	ENG 101	English Composition I	3	3	
3 rd Semester	ASC 112	HVACR Service Procedures	3	3	
	ASC 203	Commercial Refrigeration	3	3	
	ASC 210	Troubleshooting HVACR Systems	3	3	
	ASC 134	Ice Machines	3	3	
	*	Natural Science or Math Elective	3		
4 th Semester	ASC 119	Fundamentals of Gas Heating Systems	3	3	
	ASC 120	Fundamentals of Electric Heating Systems	3	3	
	ASC 148	Heat Pump Systems	3	3	
	ASC 128	Load Calculations	3	3	
	*	Humanities and Fine Arts Elective	3		
5 th Semester <i>Business Minor</i>	BUS 100	Introduction to Business	3		
	BUS 215	Business Communication	3		
	Pick One:				
	BUS 263: or BUS 285:	Legal and Social Environment of Business Principles of Marketing	3		
	BUS 279	Small Business Management	3		
*	Social and Behavioral Sciences Elective	3			
5 th Semester <i>Electrical Minor</i>	ILT 162	Solid State Fundamentals	3		
	ILT 167	AC/DC Machinery and Controls	3		
	ILT 166	Motors and Transformers	3		
	ELT 117	AC/DC Motors	3		
	*	Social and Behavioral Sciences Elective	3		
Total Hours:			72	48	

*Denotes a required academic elective to be chosen by the student.



SOUTHERN UNION
STATE COMMUNITY COLLEGE
Technical Division

Short Certificates Available in this Program of Study

HVAC-R Helper Short Certificate	
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ASC 111	Refrigeration Principles
ASC 121	Principles of Electricity for HVAC
ASC 122	HVACR Electrical Circuits
ASC 113	Refrigeration Piping Practices
ASC 123	HVACR Electrical Components
ASC 147	Refrigeration Transition & Recovery
Total Hours:	18

Refrigeration Helper Short Certificate	
Course Prefix	Course Description
ASC 111	Refrigeration Principles
ASC 121	Principles of Electricity for HVAC
ASC 122	HVACR Electrical Circuits
ASC 112	HVACR Service Procedures
ASC 203	Commercial Refrigeration
ASC 210	Troubleshooting HVACR Systems
ASC 234	Ice Machines
Total Hours:	21