

**Program Completion Guide**  
**CIP Code - 15.0501**  
**Heating and Air Conditioning/Refrigeration - ACR**  
**Associate in Applied Science (AAS Degree)**  
**2023-2024**

**Area I: Written Composition (6 Semester Hours Total)**

Courses	Courses Taken	Hours Earned
ENG101		
ENG102		

**Area II: Humanities and Fine Arts (3 Semester Hours Total)**

Courses	Courses Taken	Hours Earned
ART100, ENG251, ENG252, ENG261, ENG262, ENG271, ENG272, MUS101, PHL206, REL100, REL151, REL152, SPH107		

**Area III: Natural Science and Mathematics (10 Semester Hours Total)**

**Note:** CIS146, MTH100 or higher and a 4 credit hour science course are required.

Courses	Courses Taken	Hours Earned
CIS146		
MTH100 or Higher		
MTH110, MTH112, MTH113, MTH115, MTH120, MTH125, MTH126, MTH227		
BIO103, BIO104, CHM111, CHM112, PHS111, PHS112, PHY201, PHY202		

**Area IV: History, Social, and Behavioral Sciences (3 Semester Hours Total)**

Courses	Courses Taken	Hours Earned
ECO231, ECO232, HIS121, HIS122, HIS201, HIS202, POL200, PSY200, PSY210, SOC200		

**Area V: Pre-Professional, Major, and Elective Courses (44 Semester Hours Total)**

Courses	Credit Hours	Courses Taken	Hours Earned
<b>Major Core Concentration (33 Semester Hours)</b>			
ACR111- Principles of Refrigeration	3		
ACR112 - HVACR Service Procedure	3		
ACR113 - Refrigeration Piping Practices	3		
ACR119 - Fundamentals of Gas Heating Systems	3		
ACR120 - Fundamentals of Electrical Heating Systems	3		
ACR122 - HVAC Electrical Circuits	3		
ACR132 - Residential Air Conditioning	3		
ACR148 - Heat Pump System I	3		
ACR149 - Heat Pump System II	3		

ACR209 - Commercial Air Conditioning Systems	3		
ACR210 - Troubleshooting HVACR Systems	3		
<b>Electives (9 Credit Hours)</b>			
ACR121 Principles of Electricity for HVACR	3		
ACR123 HVAC/R Electrical Components	3		
ACR125 Fundamentals of Gas and Electrical Heating Systems	6		
ACR126 Commercial Heating Systems	3		
ACR152 Heat Pump Systems	6		
ACR181 Special Topics in Air Conditioning and Refrigeration I	3		
ACR182 Special Topics in Air Conditioning and Refrigeration II	3		
ACR192 HVAC Apprenticeship/Internship	3		
ACR195 CO-OP	3		
<b>Institutional Requirements (2 Semester Hours)</b>			
ORI101 Take in the first semester unless student has 12 transfer credit hours			
BSS220 Take in last semester of program			

*In Area I through Area IV, transfer credits are accepted in accordance to ACCS policy.*

For additional courses see [http://stars.troy.edu/approved\\_courses.html](http://stars.troy.edu/approved_courses.html)

**Total Semester Hours Required for Degree: 66**

<b>Student Name:</b>	<b>Signature of Advisor:</b>
<b>Student Number:</b>	<b>Date of Advising:</b>
<b>Total Credit Hours Earned:</b>	<b>Date Audited by Admissions:</b>

**Certificate and Short Term Certificates are available:**

- Heating and Air Conditioning - STC      12 hrs.
- Heating and Air Conditioning – CER      35 hrs.