



HEATING AND AIR CONDITIONING

Associate in Applied Science Degree – AAS HVC

Program Locations: Atmore Campus
Baldwin Preparatory Academy (Dual Enrollment)

Length: Four Semesters

The Associate in Applied Science degree in Heating and Air Conditioning is an occupational degree, which introduces the principles of preventive, predictive, and corrective maintenance. Students will learn to perform troubleshooting and analysis on machinery used in various facilities and apply sound maintenance practices in all aspects of their work.

This is a career program designed for students to go directly into the labor market upon completion. Although some of the courses in this program will transfer to four-year institutions, this program is not designed to be a transfer program of study; therefore, it is not subject to the terms and conditions of Alabama Transfers state transfer and articulation reporting system.

AREA I: Written Composition	3 Total Hours																
ENG 101 – English Composition I	3																
AREA II: Humanities and Fine Arts	3 Total Hours																
Humanities and Fine Arts Elective: Choose one of the following	3																
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">ART 100 – Art Appreciation</td> <td style="width: 50%;">PHL 206 – Ethics and Society</td> </tr> <tr> <td>ART 203 – Art History I</td> <td>REL 100 – History of World Religions</td> </tr> <tr> <td>ART 204 – Art History II</td> <td>REL 151 – Survey of the Old Testament</td> </tr> <tr> <td>HUM 101 – Introduction to Humanities I</td> <td>REL 152 – Survey of the New Testament</td> </tr> <tr> <td>HUM 102 – Introduction to Humanities II</td> <td>THR 120 – Theater Appreciation</td> </tr> <tr> <td>MUS 101 – Music Appreciation</td> <td>THR 126 – Introduction to Theater</td> </tr> <tr> <td>PHL 106 – Introduction to Philosophy</td> <td></td> </tr> </table>	ART 100 – Art Appreciation	PHL 206 – Ethics and Society	ART 203 – Art History I	REL 100 – History of World Religions	ART 204 – Art History II	REL 151 – Survey of the Old Testament	HUM 101 – Introduction to Humanities I	REL 152 – Survey of the New Testament	HUM 102 – Introduction to Humanities II	THR 120 – Theater Appreciation	MUS 101 – Music Appreciation	THR 126 – Introduction to Theater	PHL 106 – Introduction to Philosophy		3		
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AREA III: Natural Sciences and Mathematics	6 Total Hours																
CIS 146 – Microcomputer Applications	3																
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AREA IV: History, Social, and Behavioral Sciences	3 Total Hours																
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AREA V: Pre-Professional, Major, and Elective Courses		46 Total Hours
ACR 111 – Principles of Refrigeration		3
ACR 112 – HVACR Service Procedures		3
ACR 119 – Fundamentals of Gas Heating Systems		3
ACR 121 – Principles of Electricity for HVAC		3
ACR 122 – HVACR Electric Circuit		3
ACR 126 – Commercial Heating Systems		3
ACR 147 – Refrigeration Transition and Recovery Theory		3
ACR 148 – Heat Pump Systems I		3
ACR 205 – System Sizing and Air Distribution		3
CAR 111 – Construction Basics		3
ELT 114 – Residential Wiring Methods		3
INT 117 – Principles of Industrial Mechanics		3
WKO 110 – NCCER Core		3
ORI 101 – Orientation to College or WKO 107 – Workplace Skills Preparation		1
HVAC AAS Electives: Choose two of the following.		
CAR 112 – Floors, Walls, and Site Prep	ILT 214 – Control and Troubleshooting Flow, Level, Temperature, Pressure and Level Processes	6
CAR 114 – Construction Basics Lab	ILT 166 – Motors and Transformers I	
ELT 115 – Residential Wiring Methods II	ILT 108 – Introduction to Instruments and Process Control	
ELT 131 – Wiring I Commercial and Industrial	ILT 180 – Special Topics	
ELT 212 – Motor Controls II	INT 161 – Blueprint Reading for Industrial Technicians	
ELT 231 – Intro to Programmable Controllers	INT 222 - Special Topics	
ELT 232 – Advanced Programmable Controllers	INT 291 – Cooperative Education	
IET 114 – Basic Electricity	WKO 106 – Workplace Skills	
IET 122 – Rotating Machinery and Controls		
IET 131 – Fluid Power Systems		
Total Hours		61 SH