



HEATING AND AIR CONDITIONING

Associate in Applied Science Degree – AAS HVC

Program Locations: Atmore Campus
North Baldwin Center for Technology (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 <div style="display: flex; justify-content: space-between; font-size: 0.9em;"> <div style="width: 45%;"> ART 100 – Art Appreciation ART 203 – Art History I ART 204 – Art History II HUM 101 – Introduction to Humanities I HUM 102 – Introduction to Humanities II MUS 101 – Music Appreciation PHL 106 – Introduction to Philosophy </div> <div style="width: 45%;"> PHL 206 – Ethics and Society REL 100 – History of World Religions REL 151 – Survey of the Old Testament REL 152 – Survey of the New Testament THR 120 – Theater Appreciation THR 126 – Introduction to Theater </div> </div>	3
AREA III: Natural Sciences and Mathematics	6 Total Hours
CIS 146 – Microcomputer Applications	3
Choose one of the following: MTH 100 – Intermediate College Algebra MTH 116 – Mathematical Applications	3
AREA IV: History, Social, and Behavioral Sciences	3 Total Hours
Choose one of the following: <div style="display: flex; justify-content: space-between; font-size: 0.9em;"> <div style="width: 45%;"> ECO 231 – Principles of Macroeconomics ECO 232 – Principles of Microeconomics GEO 100 – World Regional Geography HIS 101 – Western Civilization I HIS 102 – Western Civilization II HIS 121 – World History I HIS 122 – World History II HIS 201 – United States History I </div> <div style="width: 45%;"> HIS 202 – United States History II POL 200 – Introduction to Political Science POL 211 – American National Government PSY 200 – General Psychology PSY 210 – Human Growth and Development SOC 200 – Introduction to Sociology SOC 210 – Social Problems </div> </div>	3

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