COASTAL ALABAMA COMMUNITY COLLEGE

HEATING AND AIR CONDITIONING

Associate in Applied Science Degree – AAS HVC

Program Locations: Atmore and Thomasville Campuses
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 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 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	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: 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 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 SPH 116 – Introduction to Interpersonal Communications	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
IET 114 – Basic Electricity	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 **three** of the following. ELT 114 – Residential Wiring ELT 115 – Residential Wiring Methods II ELT 131 – Wiring I Commercial and Industrial ELT 212 – Motor Controls II ELT 231 – Intro to Programmable Controllers ELT 232 – Advanced Programmable Controllers IET 122 – Rotating Machinery and Controls IET 131 – Fluid Power Systems ILT 214 – Control and Troubleshooting Flow, Level, Temperature, Pressure and Level Processes ILT 166 – Motors and Transformers I ILT 108 – Introduction to Instruments and Process Control ILT 180 – Special Topics INT 161 – Blueprint Reading for Industrial Technicians INT 222 - Special Topics INT 291 – Cooperative Education WKO 106 – Workplace Skills	9
Total Hours	**61 SH**