

# Associate of Applied Science (Heating, Ventilation & Air Conditioning) AAS-HVAC

## PROGRAMME OVERVIEW

Developed with the assistance of employers in this field, this competency-based, modularised programme usually takes two years to complete. Students will experience lectures, practical assignments, and self-directed activities as they proceed through the modules, working with a lecturer and being evaluated on a skills basis. In addition to instruction in the theoretical aspects of heating, ventilating and air conditioning repair, extensive practical experience in an internship is an integral part of the programme. Graduates will be eligible to receive an industry-recognised certificate in HVAC from the National Centre for Construction Education and Research (NCCER), and also meet the Bermuda National Training Board standard for entering the Heating, Ventilating, and Air Conditioning Technology trade.

**Prerequisite:** NCCER Core (8CR)  
(Please see NCCER Courses on pg. 104)

## CURRICULUM

**TOTAL CREDITS: 69**

### YEAR 1

#### First Semester - 15 credits

CSC 1110	Learning Strategies for Student Success	1
CIS 1120	Introduction to Business Applications of Computers	3
ENG 1111	Freshman Composition	3
MAT 1105	College Algebra I	3

#### Career Concentration:

HVA 1101	Fundamentals of Heating and Cooling	5
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#### Second Semester - 16 credits

ENG 1115	Writing for Professionals	3
MAT 1141	Pre-Calculus	3

#### Career Concentration:

HVA 1102	Mechanical Maintenance	3
HVA 1103	HVAC Controls	3
HVA 1104	Refrigeration Systems Service	4

### YEAR 2

#### First Semester - 20 credits

MGN 1114	Introduction to Business	3
PHY 1121	Principles of Physics I	4
Elective	Course in Social Science	3

#### Career Concentration:

HVA 1105	Senior Student Project I	2
HVA 1106	Troubleshooting Heating	3
HVA 2107	Troubleshooting Cooling	3
HVA 2108	Hydronics	2

#### Second Semester - 18 credits

MGN 2245	Introduction to Small Business Management	3
PHY 1122	Principles of Physics II	4

#### Career Concentration:

HVA 2109	Senior Student Project II	2
HVA 2110	System Performance	3
HVA 2111	Energy Management	3
HVA 2112	System Design	3