

HEATING AND AIR CONDITIONING CONCENTRATION

INDUSTRIAL ENGINEERING TECHNOLOGY

Associate in Applied Science Degree

LENGTH: Six Semesters

PURPOSE: 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.

AREA I	WRITTEN COMPOSITION	3 SH
ENG 101.....	English Composition I	3
AREA II	HUMANITIES AND FINE ARTS	6 SH
Humanities Elective.....	ART 100, MUS 101, PHL 200, PHL 206, REL 151, or REL 152.....	3
SPH 107	Fundamentals of Public Speaking	3
AREA III	NATURAL SCIENCES AND MATHEMATICS.....	9-10 SH
MTH 116 or MTH 100	Mathematical Applications or Intermediate College Algebra	3
CIS 146.....	Microcomputer Applications	3
Elective	MTH, SCI, CIS 130 or CIS 147.....	3-4
AREA IV	HISTORY, SOCIAL, AND BEHAVIORAL SCIENCES.....	3 SH
Elective	ANT, ECO, GEO, HIS, PSY, or SOC.....	3
AREA V	PRE-PROFESSIONAL, MAJOR, AND ELECTIVE COURSES.....	46 SH
IET 114	Basic Electricity.....	3
IET 131	Fluid Power Systems.....	3
ILT 108.....	Introduction to Instruments and Process Control.....	3
INT 117.....	Principles of Industrial Mechanics	3
WKO 107 or ORI 101.....	Work Place Skills Preparation or Orientation to College.....	1
WKO 110.....	NCCER Core.....	3
ACR 111	Principles of Refrigeration	3
ACR 112	HVACR Service Procedures	3
ACR 121	Principles of Electricity for HVAC/R	3
ACR 122.....	HVAC/R Electrical Circuits.....	3
ACR 126 or ACR 119.....	Commercial Heating Systems or Fundamentals of Gas Heating Systems.....	3
ACR 147	Refrigerant Transition and Recovery Theory.....	3
ACR 148	Heat Pump Systems I	3
ACR 149	Heat Pump Systems II	3
ACR 205.....	System Sizing and Air Distribution.....	3
Electives	ELT, IET, ILT, INT, or ACR	3
Total Hours	67-68 SH	

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 STARS.