

Catalog Addendums

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HEATING AND AIR CONDITIONING TECHNOLOGY

Purpose

The Air Conditioning, Heating and Refrigeration Program is designed to prepare the student for employment and advancement in the field of air conditioning, heating, and refrigeration.

Program Description

It is the objective of this course to present basic principles, to develop correct work procedures, and to train in the basic skills necessary for advancement in the field of air conditioning, heating and refrigeration. Upon satisfactory completion of this course, a student will be prepared to secure employment with businesses which install or service air conditioning, heating, or refrigeration systems and equipment or to become self employed.

The curriculum contains the following areas of emphasis:

- Mathematics related to air conditioning, heating and refrigeration
- Schematic, diagrammatic blueprint reading
- Air conditioning, heating and refrigeration principles and installation, maintenance and servicing of the equipment

Program Length

Four Semesters

Degree(s) Offered

Certificate

Associate in Applied Science

Admission Requirements

- Must meet all general admission requirements of the college. For some technical certificate programs, an ACT WorkKeys Career Readiness Credential may be accepted for admission purposes in place of the ACT. See the appropriate program for more details.
- Must have good manual dexterity, arm-hand steadiness, near vision, active listening, and information ordering skills.
- Receive a negative test result on drug screen test conducted by a certified laboratory approved by the college and have the results submitted directly to the college.

Contact

The Student Success Center-Jones County Junior College 601.477.4257 or Instructor: Jay Aultman 601.477.4241 or at kenneth.aultman@jcc.edu or Thomas Johnson 601.477.4247 or thomas.johnson@jcc.edu.

HEATING AND AIR CONDITIONING

Career Certificate Option

The following advisement plan is a recommended course of study. An academic advisor may alter course sequence to meet individual student needs. In addition, an academic advisor may recommend additional or different courses depending upon student career plans and/or requirements of the college or university to which the student plans to transfer.

Freshman Year

Fall Semester Credit Hours

SSP 1002 Smart Start Pathway.....	2
CTE 1143 NCCER Core	3
ACT 1124 Basic Compression Refrigeration.....	4
ACT 1133 Tools and Piping.....	3
ACT 1713 Electricity for Heating , Ventilation, Air Conditioning & Refrigeration.....	3
ACT 2433 Refrigerants, Retrofit and Regulations.....	3
Total Hours.....	18

Spring Semester Credit Hours

ACT 1214 Controls.....	4
ACT 1313 Refrigeration System Components.....	3
ACT 2414 Air Conditioning I.....	4
ACT 2513 Heating Systems.....	3
Total Hours.....	14

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Technical Certificate Option

Freshman Year

Fall Semester Credit Hours

LLS 1722 Smart Start Pathway.....	2
CTE 1143 NCCER Core	3
ACT 1124 Basic Compression Refrigeration.....	4
ACT 1713 Electricity for Heating, Ventilation, Air Conditioning & Refrigeration.....	3
ACT 1133 Tools and Piping.....	3
Total Hours.....	15

Spring Semester Credit Hours

ACT 1313 Refrigeration System Components.....	3
ACT 1214 Controls.....	4
ACT 2913 Special Problems in Heating & Air Conditioning	3
ACT 1813 Professional Service Procedure	3
ACT 2413 Air Conditioning I.....	3
Total Hours.....	13

Sophomore Year

Fall Semester Credit Hours

ACT 2424 Air Conditioning II.....	4
ACT 2514 Heating Systems.....	4
ACT 2624 Heat Load and Air Properties.....	4
Total Hours.....	12

Spring Semester Credit Hours

ACT 2325 Commercial Refrigeration.....	5
ACT 2433 Refrigerant Retrofit and Regulations.....	3
ACT 2914 Special Project (Ammonia Refrigeration).....	4
Total Hours.....	12

HEATING AND AIR CONDITIONING

Associate in Applied Science Option

Freshman Year

Fall Semester Credit Hours

LLS 1722 Smart Start Pathway.....	2
CTE 1143 NCCER Core	3
ACT 1124 Basic Compression Refrigeration.....	4
ACT 1713 Electricity for Heating, Ventilation, Air Conditioning & Refrigeration.....	3
ACT 1133 Tools and Piping.....	3
ENG 1113 English Comp I.....	3
MAT 1313 College Algebra.....	3
Total Hours.....	18

Spring Semester Credit Hours

ACT 1313 Refrigeration System Components.....	3
ACT 1214 Controls.....	4
ACT 1813 Professional Service Procedure	3
ACT 2913 Special Problems in Heating & Air Conditioning	3
ACT 2413 Air Conditioning I.....	3
ENG 1123 English Comp II.....	3

Total Hours.....16

Sophomore Year

Fall Semester Credit Hours

ACT 2424 Air Conditioning II.....4

ACT 2514 Heating Systems.....4

ACT 2624 Heat Load and Air Properties.....4

~~MAT 1313 College Algebra.....3~~

PSC 1113 American National Government or PSY 1513 General Psychology.....3

Total Hours.....15

Spring Semester Credit Hours

ACT 2325 Commercial Refrigeration.....5

ACT 2433 Refrigerant Retrofit and Regulations.....3

ACT 2914 Special Project (Ammonia Refrigeration).....4

Instructor Approved Academic Elective.....3

Total Hours.....15

NOTE: Baseline competencies are taken from the high school Heating and Air Conditioning program. Students who can document mastery of the competencies will not receive duplicate instruction. Students who cannot demonstrate mastery will be required to do so.

~~*Restricted Electives to be selected with instructor's approval: DDT 1163 Engineering Graphics; EET 1192 Fundamental of Electronics; ELT 2613 Programmable Logic Controllers; MST 1412 Blueprint Reading; WLV 1913 Special project in Welding.~~