

Air Conditioning Technology - Food Service Refrigeration

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

REQUIRED CREDITS: 62.5

DEGREE CODE: ACTFSR-AAS

DESCRIPTION

This program prepares students to install, maintain, service, troubleshoot, and repair commercial refrigeration systems. The program enables students to learn how to maintain, troubleshoot, and repair walk-in freezers, ice machines, and other related machinery. Instruction includes classroom, laboratory, and hands-on work in the laboratory or in the field. Along with core classes, academic skills emphasizing related math, science, and human relations components are stressed to help students prepare to meet challenges commonly found in the workplace.

STUDENT LEARNING OUTCOMES

- Incorporate workforce safety principals while performing basic tasks of a Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) technician.
- Interpret electrical/mechanical schematics on HVAC/R equipment to diagnose mechanical or electrical problems in a residential or light commercial environment.
- Appraise EPA rules, regulations, and refrigerant handling techniques in the performance of HVAC/R duties.
- Diagnose and repair electrical or mechanical problems on commercial refrigeration equipment.

PLEASE NOTE - The courses listed below may require a prerequisite or corequisite. Read course descriptions before registering for classes. All MATH and ENG courses numbered 01-99 must be completed before reaching 30 total college-level credits. No course under 100-level counts toward degree completion.

GENERAL EDUCATION REQUIREMENTS (22 CREDITS)**MATHEMATICS (3 credits)**

Recommended: MATH 104B Applied Mathematics

ENGLISH COMPOSITION (3-5 credits)

ENG 100 or 101 or 107 or 113

COMMUNICATIONS (3 credits)

Required: COM 115 Applied Communication

HUMAN RELATIONS (3 credits)

Recommended: ALS 101 College Success

NATURAL SCIENCE (3-4 credits)

Recommended: ENV 101 Introduction to Environmental Science

FINE ARTS/HUMANITIES/SOCIAL SCIENCE (3-4 credits)

Recommended: GEOG 106 World Geography

U.S. AND NEVADA CONSTITUTIONS (4-6 credits)

Recommended: PSC 101 Introduction to American Politics

SPECIAL PROGRAM REQUIREMENTS (40.5 CREDITS)**CORE REQUIREMENTS (37.5 credits)**

AC 102B	Introduction to HVAC Electrical Theory and Application	5
AC 103B	Introduction to HVAC Mechanical Theory and Application	5
AC 106B	Residential Gas Heating	5
AC 110B	Intermediate HVAC Electrical Theory and Application	5
AC 115B	Troubleshooting	5
AC 116B	Copper Fundamentals	1
AC 119B	Professionals in Customer Service	1.5
AC 200B	Commercial Refrigeration I	5
AC 202B	Commercial Refrigeration II	5

Plus three credits from the following

CADD 100	Introduction to Computer Aided Drafting	3
CONS 120B	Construction Plans and Specifications	3

Choose one from the following (0-3 credits)

IS 100B	Core Computing Competency	0
IS 101	Introduction to Information Systems	3

See Degree Plan on next page.

- NOTE**
- Course numbers with the “B” suffix may be non-transferable for a NSHE baccalaureate degree.
 - Course numbers with the “H” suffix are designated Honors-level courses and can be used to fulfill equivalent general education requirements. For more information visit www.csn.edu/honors.
 - In no case, may one course be used to meet more than one requirement except for the Values and Diversity general education requirement (only AA, AS, and AB degrees) which may be used to fulfill the corresponding general education or emphasis requirement.
 - Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.



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FULL-TIME STUDENT DEGREE PLAN*Add more semesters to modify this plan to fit part-time student needs.*

FIRST SEMESTER	Credits
MATH 104B Applied Mathematics	3
ENG 100 or 101 or 107 or 113	3-5
AC 102B Introduction to HVAC Electrical Theory and Application	5
AC 103B Introduction to HVAC Mechanical Theory and Application	5
TOTAL CREDITS	16-18
SECOND SEMESTER	Credits
COM 115 Applied Communication	3
ALS 101 College Success	3
AC 106B Residential Gas Heating	5
AC 110B Intermediate HVAC Electrical Theory and Application	5
IS 100B or IS 101	0-3
TOTAL CREDITS	16-19
THIRD SEMESTER	Credits
GEOG 106 World Geography	3
AC 116B Copper Fundamentals	1
AC 119B Professionals in Customer Service	1.5
AC 200B Commercial Refrigeration I	5
CADD 100 or CONS 120B	3
TOTAL CREDITS	13.5
FOURTH SEMESTER	Credits
ENV 101 Introduction to Environmental Science	3
PSC 101 Introduction to American Politics	4
AC 115B Troubleshooting ¹	5
AC 202B Commercial Refrigeration II	5
TOTAL CREDITS	17
DEGREE PLAN TOTAL CREDITS	62.5-67.5

¹This course has prerequisites of AC 106B and AC 111B. Contact the department of Applied Technologies for permission to complete this class in this semester.

