

Air Conditioning and Refrigeration Technology



Department of Construction Technologies

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School of Technology and Computing

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CAREER OPPORTUNITIES

Students who earn a degree in Air Conditioning and Refrigeration Technology (ACRT) may choose from a wide variety of work applications. Throughout the country, the industry as a whole is facing a shortage of qualified service personnel. A graduate may do specialty work in areas such as supermarket refrigeration, manufacturing process cooling, industrial air conditioning, transport refrigeration, building maintenance, controls, or installation and repair of residential air conditioning and heating equipment. Virtually anywhere

that you find food or people you will find a need for heating, ventilation, refrigeration and air conditioning.

EPA laws and the increased use of computers have significantly increased the demand for highly trained technicians. This increased demand has resulted in significant wage increases in the past few years. The rapidly expanding industry with its new technologies provides many new job opportunities as well as opportunities for advancement within specific organizations.

The industry encourages personal development. Entry-level technicians may move into other areas of the industry such as installation, service, sales, estimating, design or wholesale operations for various-sized firms.

Many ACRT personnel eventually open their own businesses. Refrigeration and air conditioning personnel are necessary in almost any place people reside or work.

PROGRAMS

Students may receive an Associate in Applied Science degree or a Bachelor of Science degree in Technology Management.

Reminder: an overall grade point average of 2.0 "C" or above is required for graduation.

AAS in Air Conditioning and Refrigeration Technology 69 CREDITS

General Education Requirements: 16 Credits

- ACRT 1120 Special Refrigeration Mathematics 3.0
- ENGL 1060 Career Writing for Technology 3.0
- or ENGL 1010 Introduction to Writing (3.0)
- Biology/Physical Science 3.0
- Health/PE/Safety/Environment 1.0
- Humanities/Fine Arts/Foreign Language 3.0
- Social/Behavioral Science 3.0

Discipline Core Requirements: 53 Credits

- ACRT 1110 Refrigeration I 10.0
- ACRT 1210 Refrigeration II 9.0
- ACRT 1220 Basic Electricity and Motor Controls 5.0
- ACRT 2320 Motors--Controls and Wiring Diagrams 5.0
- ACRT 2330 Sheet Metal Layout 1.0
- ACRT 2420 Heating and Air Conditioning Controls 5.0
- ACRT 2340 Commercial Refrigeration Theory 4.0
- ACRT 234L Commercial Refrigeration Lab 5.0
- ACRT 2440 Commercial Refrigeration Heating and Air Conditioning Theory 4.0
- ACRT 244L Commercial Refrigeration Heating and Air Conditioning Lab 5.0

Graduation Requirements:

- 1 Completion of a minimum of 69 semester credits.
- 2 Overall grade point average of 2.0 (C) or above.
- 3 Residency hours--minimum of 20 credits hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements.
- 5 Complete all Technical Specialty courses with a minimum grade of "C-" or better.

BS in Technology Management 124 CREDITS

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in Air Conditioning and Refrigeration Technology 47 Credits

Emphasis Requirements: 47 Credits

Complete the following:

- ACRT 1110 Refrigeration I 10.0
- ACRT 1210 Refrigeration II 9.0
- ACRT 1220 Basic Electricity and Motor Controls 5.0
- ACRT 2320 Motors--Controls and Wiring Diagrams 5.0
- ACRT 2340 Commercial Refrigeration Theory 4.0
- ACRT 234L Commercial Refrigeration Lab 5.0
- ACRT 2440 Commercial Refrigeration Heating and Air Conditioning Theory 4.0
- ACRT 244L Commercial Refrigeration Heating and Air Conditioning Lab 5.0

Due to the technical nature of the material in ACRT courses, additional reading and math instruction may be required. More information will be given during advisement.

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- ACRT, Air Conditioning and Refrigeration Technology
- BCCM, Building Construction and Construction Management
- BIT, Building Inspection Technology
- CAW, Cabinetry and Architectural Woodworking
- FAC, Facilities Management
- LINE, Lineman Technology
- WELD, Welding Technology