AIR CONDITIONING TECHNOLOGY — 66 Credits

ASSOCIATE OF APPLIED SCIENCE DEGREE (AAS)

This program prepares students to install, maintain, service, troubleshoot and repair residential heating and cooling systems. Additionally, the program includes commercial refrigeration courses enabling 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 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 - *Graduates of this program will have the opportunity to:*

- Perform the basic tasks of a Heating, Ventilation, Air Conditioning, and Refrigeration (HVAC/R) technician in a residential and light commercial environment.
- Read and interpret electrical schematics; troubleshoot and diagnose mechanical and electrical problems using methods and equipment appropriate to this industry.
- Utilize currently accepted EPA rules, techniques, and regulations in the performance of HVAC/R duties; observe proper safety practices when working with high- and low-voltage electricity, and when working with refrigerants under pressure.
- Demonstrate knowledge of mathematics, communication skills, and other core degree requirements adequate to assume supervisory or entry-level management positions in HVAC/R industry.

GENERAL EDUCATION REQUIREMENTS (25 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 107	3	_____
ENGLISH: ENG 100, 101, 107, 113	3-5	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 116	3	_____
SCIENCE: BIOL 100, ENV 101, GEOL 101, PHYS 110	6	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY, SOC, THTR, WMST 113	3	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

SPECIAL PROGRAM REQUIREMENTS (41 Credits):

		CR	SEMESTER
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 111B	Heat Pumps	5	_____
AC 115B	Troubleshooting	5	_____
AC 200B	Commercial Refrigeration I	5	_____
Plus 6 credits from the following			
AC 295B	Work Experience I	6	_____
AC 114B	Heat Load and Duct Design	5	_____
AC 120B	Air Conditioning Sheet Metal Fabrication	3	_____
AC 202B	Commercial Refrigeration II	5	_____

66 Total Credits

ASSOCIATE OF APPLIED SCIENCE

AC A02

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.