

CAREER PROGRAMS

Heating, Ventilation and Air Conditioning (HVAC)

Associate in Applied Science Degree: Refrigeration and Air Conditioning Technology

The courses in this curriculum are theory design and service oriented. Theory courses deal with energy conversions. Service courses are strongly related to a hands-on philosophy. Emphasis is placed upon operating, servicing and installing equipment.

Graduates from this 60 credit-hour program may be employed as engineering laboratory assistants, equipment salesmen, heating and refrigeration servicemen, estimators and system designers.

Summer Semester

RAC 100	Heating and Cooling Exploration ¹	1
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FIRST YEAR²

First Semester

English elective ³	3
RAC 101 Refrigeration Fundamentals.....	4
RAC 103 Heating Principles	4
RAC 105 Heating and Cooling Controls	4
	<u>15</u>

Second Semester

MET 101 Applied Mechanical Drafting ⁴	3
RAC 102 Refrigeration Systems	4
RAC 104 Residential Comfort Systems	4
RAC 106 Advanced Controls	4
	<u>15</u>

Summer Semester

RAC 200 Heating and Cooling Internship ¹	2
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SECOND YEAR²

First Semester

English elective ³	3
RAC 201 Refrigeration System Design I	4
RAC 203 Air Conditioning Principles	4
Social Science elective	3
	<u>14</u>

Second Semester

Humanities elective ⁵	3
Mathematics elective ⁶	3
RAC 202 Refrigeration System Design II	4
RAC 204 Air Distribution	3
Social Science elective	3
	<u>16</u>

- ¹ RAC 100 and RAC 200 may be counted as technical electives with approval of coordinator.
- ² RAC 290 may be substituted for some of the listed RAC courses, with approval of coordinator.
- ³ Students may take ENG 100 or ENG 101 the first semester, depending upon their test scores and the advice of a Student Development faculty member. ENG 102, ENG 103 or ENG 130 are suggested second semester electives.
- ⁴ Students will enroll in sections of MET 101 designed for RAC students.
- ⁵ Suggested humanities elective: ART 122 or PHI 110.
- ⁶ A competency test, available in the Assessment and Testing Center, may be utilized to meet the mathematics elective requirement. Students in this program who utilize the competency test to meet the mathematics requirement must complete a three credit-hour course from the following list: MET 110, MGT 111, MGT 154, MGT 160, RAC 208, RAC 211 or RAC 290.