

Gateway S.M.A.R.T. Plan

Diploma: Heating, Ventilation and Air Conditioning Mechanic (50-53 Total Credit Hours)

Additional expenses: EPA Certification Test fee of \$45 required. Note that there may be course changes with future curriculum revisions that affect a change in course requirements listed on this sheet.

Recommended Semester 1

Courses	Cr	Grade	Offered
ACR 100 Refrigeration Fundamentals (first eight weeks)	3		Fall/Spring
ACR 101 Refrigeration Fundamentals Lab (first eight weeks)	2		Fall/Spring
ACR 102 HVAC Electricity (second eight weeks)*	3		Fall/Spring
ACR 103 HVAC Electricity Lab (second eight weeks)*	2		Fall/Spring
Digital Literacy - CIT 105 Introduction to Computers or OST 105 Introduction to Office Systems (or Competency demonstrated by exam)	0-3		All

Recommended Semester 2

Courses	Cr	Grade	Offered
ACR 130 Electrical Components	3		Fall
ACR 131 Electrical Components Lab	2		Fall
ACR 170 Heat Load/Duct Design	3		Fall
ACR 260 Heating and Humidification	3		Fall
ACR 262 Heating and Humidification Lab	2		Fall

Recommended Semester 3

Courses	Cr	Grade	Offered
ACR 250 Cooling and Dehumidification	3		Spring
ACR 251 Cooling and Dehumidification Lab	2		Spring
ACR 270 Heat Pump Application	3		Spring
ACR 271 Heat Pump Application Lab	2		Spring
Technical Elective (rec. PLB 105 Plumbing Principles or ACR 290 Journeyman Prep)**	3		Spring

Recommended Semester 4

Courses	Cr	Grade	Offered
ACR 298 Practicum	2		Fall/Spring
General Education Area 1 – Written or Oral Communication or Heritage/Humanities	3		All
General Education Area 2 – Social/Behavioral or Natural Science or Quantitative Reasoning	3		All
Technical Elective (rec. EGY 240 Energy Efficiency and Analysis)	3		Fall/Spring
Technical Elective (rec. PLB 100 Basic Theory of Plumbing)	3		Fall

Notes

- *Comparable Electric courses: EET 154/155 or ELT 110/114 or IMT 110/111
- ** ACR 290 is highly recommended as it is required as the exit exam for the Air Conditioning program.



GATEWAY
COMMUNITY
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- Progression in the program is contingent upon achievement of a grade of C or greater in each technical course, (including those selected as technical electives), and maintenance of a 2.0 cumulative GPA or above (on a 4.0 scale).
- At least 25 percent of the approved curriculum for any certificate, diploma or degree must be completed at the student's home college.

Updated 11/1/21

