



# HVAC AND REFRIGERATION TECHNOLOGY CAREER PATHWAY MAP

READ ALL NOTES  
CAREFULLY:

✓	RECOMMENDED COURSE SEQUENCE	General Ed. Area shown on page 2	SEMESTERS OFFERED	MY PLAN (Semester and Year)	CREDIT HOURS
<input type="checkbox"/>	1. HART 1307 Refrigeration Principles		F		3
<input type="checkbox"/>	2. <b>HART 1341 Residential Air Conditioning</b>		F		3
<input type="checkbox"/>	3. ELPT 1311 Basic Electrical Theory		F,SP		3
<input type="checkbox"/>	4. ENTC 1347 Safety and Ergonomics		F,SP		3
<input type="checkbox"/>	5. DFTG 1325 Blueprint Reading and Sketching		F,SP,SU		3
					15 hours
<input type="checkbox"/>	6. <b>HART 2336 A/C Troubleshooting</b>		SP		3
<input type="checkbox"/>	7. <b>HART 1345 Gas &amp; Elect. Heating</b>		SP		3
<input type="checkbox"/>	8. <b>HART 2449 Heat pumps</b>		SP		4
<input type="checkbox"/>	9. <b>HART 2331 Adv. Elect. For HVAC-R</b>		SP		3
<input type="checkbox"/>	10. <b>HART 2334 Adv. A/C Controls</b>		SP		3
	<b>***Residential A/C Certificate Earned***</b>				31 hours
<input type="checkbox"/>	11. <b>HART 2441 Commercial A/C</b>		SU		4
<input type="checkbox"/>	12. <b>HART 2342 Commercial Refrigeration</b>		SU		3
<input type="checkbox"/>	13. <b>HART 2457 Specialized Commercial Refrig</b>		SU		4
	<b>***Commercial Refrigeration Certificate Earned ***</b>				42 hours
<input type="checkbox"/>	14. <b>HART 1383 Internship</b>		SU		3
<input type="checkbox"/>	15. <i>ENGL 1301 Composition I</i>	<a href="#">GE H&amp;FA !</a>	F, SP, SU		3
<input type="checkbox"/>	16. <i>PHIL 1301 Introduction to Philosophy*</i>	<a href="#">GE H&amp;FA !</a>	F, SP, SU		3
<input type="checkbox"/>	17. <i>MATH 1332 Contemporary Mathematics or MATH1342 Elementary Statistical Methods **</i>	<a href="#">GE NS&amp;M @</a>	F, SP, SU		3
<input type="checkbox"/>	18. <i>SOCI 1301 Introductory Sociology*</i>	<a href="#">GE S&amp;B \$</a>	F, SP, SU		3
<input type="checkbox"/>	19. <i>SPCH 1315 Public Speaking*</i>	<a href="#">GE AC %</a>	F, SP, SU		3
	<b>*** ASSOCIATE OF APPLIED SCIENCE DEGREE EARNED ***</b>				60 hours
	<b>NOTE: Check with the Office of Financial Aid as aid may not be available beyond degree completion and/or 60 hours.</b>				

- a) Courses in **bold** have a pre-requisite (previous course required). [See Catalog](#)
- b) Courses in *italics* can be taken in any order.
- c) ENGL 1301 and the first MATH class may require a co-requisite and/or developmental course depending on TSI Scores.
- d) Refer to [KC Catalog](#) for Field of Study and Degree Requirements.
- \* Refer to list of General Ed. Courses and KC Catalog for all possible options.

\*\* [Required for degree plan]

## CAREER OPPORTUNITIES

Career Options: HVAC Technician, Refrigeration Technician

Salary Information: 57,300 (2023 Median Salary-U.S. Bureau of Labor Statistics)

<https://www.bls.gov/ooh/installation-maintenance-and-repair/heating-air-conditioning-and-refrigeration-mechanics-and-installers.htm>

## ADVANCED DEGREES/CREDENTIAL OPPORTUNITIES

EPA-608

## LINKS TO COLLEGES AND PROFESSIONAL ORGANIZATIONS:

NCCER-National Center for Construction Education and Research <https://www.nccer.org/>

TDLR- Texas Department of Licensing & Regulation <https://www.tdlr.texas.gov/acr/>

## CONTACT INFORMATION (Click link for [KC Digital Map](#))

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## Kilgore College Composite List of General Education Courses

### **! Humanities and Fine Arts**

[ARTS 1301 \(T\) - Art Appreciation](#)  
[ARTS 1303 \(T\) - Art History I](#)  
[ARTS 1304 \(T\) - Art History II](#)  
[DANC 2303 \(T\) - Dance Appreciation](#)  
[DRAM 1310 \(T\) - Theatre Appreciation](#)  
DRAM 2361 - History of the Theatre I  
DRAM 2362 - History of the Theatre II  
[DRAM 2366 \(T\) - Film Appreciation](#)  
[ENGL 1302 \(T\) - Composition II](#)  
[ENGL 2322 \(T\) - British Literature I](#)  
[ENGL 2323 \(T\) - British Literature II](#)  
[ENGL 2326 \(T\) - American Literature](#)  
[ENGL 2332 \(T\) - World Literature I](#)  
[ENGL 2333 \(T\) - World Literature II](#)  
[HIST 1301 \(T\) - United States History I](#)  
[HIST 1302 \(T\) - United States History II](#)  
[HIST 2311 \(T\) - Western Civilization I](#)  
[HIST 2312 \(T\) - Western Civilization II](#)  
[HIST 2321 \(T\) - World Civilizations I](#)  
[HIST 2322 \(T\) - World Civilizations II](#)  
[MUSI 1306 \(T\) - Music Appreciation](#)  
[PHIL 1301 \(T\) - Introduction to Philosophy](#)  
[PHIL 2306 \(T\) - Introduction to Ethics](#)

### **\$ Social and Behavioral Sciences**

[CRIJ 1301 \(T\) - Introduction to Criminal Justice](#)  
[ECON 2301 \(T\) - Principles of Macroeconomics](#)  
[ECON 2302 \(T\) - Principles of Microeconomics](#)  
[GEOG 1303 \(T\) - World Regional Geography](#)  
[GOVT 2305 \(T\) - Federal Government](#)  
[GOVT 2306 \(T\) - Texas Government](#)  
[HIST 1301 \(T\) - United States History I](#)  
[HIST 1302 \(T\) - United States History II](#)  
[PSYC 2301 \(T\) - General Psychology](#)  
[PSYC 2314 \(T\) - Lifespan Growth and Development](#)  
[SOC1 1301 \(T\) - Introductory Sociology](#)  
[SOC1 1306 \(T\) - Social Problems](#)  
[SOC1 2301 \(T\) - Marriage and the Family](#)  
[TECA 1354 \(T\) - Child Growth and Development](#)

### **@ Natural Sciences and Mathematics**

[BIOL 1406 \(T\) - Biology for Science Majors I](#)  
[BIOL 1407 \(T\) - Biology for Science Majors II](#)  
[BIOL 1408 \(T\) - Biology for Non-Science Majors I](#)  
[BIOL 1409 \(T\) - Biology for Non-Science Majors II](#)  
[BIOL 2401 \(T\) - Human Anatomy and Physiology I](#)  
[BIOL 2402 \(T\) - Human Anatomy and Physiology II](#)  
[BIOL 2406 \(T\) - Environmental Biology](#)  
[CHEM 1405 \(T\) - Introductory Chemistry I \(lecture + lab\)](#)  
[CHEM 1406 \(T\) - Introductory Chemistry I \(lecture + lab, allied health emphasis\)](#)  
[CHEM 1411 \(T\) - General Chemistry I \(lecture + lab\)](#)  
[CHEM 1412 \(T\) - General Chemistry II \(lecture + lab\)](#)  
[ENVR 1401 \(T\) - Environmental Science I](#)  
[GEOL 1301 \(T\) - Earth Sciences for Non-Science Majors I \(lecture\)](#)  
[GEOL 1403 \(T\) - Physical Geology \(lecture + lab\)](#)  
[GEOL 1404 \(T\) - Historical Geology \(lecture + lab\)](#)  
[GEOL 1405 \(T\) - Environmental Science \(lecture + lab\)](#)  
[MATH 1314 \(T\) - College Algebra](#)  
MATH 1316 - Plane Trigonometry  
[MATH 1324 \(T\) - Mathematics for Business and Social Sciences](#)  
[MATH 1325 \(T\) - Calculus for Business and Social Sciences](#)  
[MATH 1332 \(T\) - Contemporary Mathematics](#)  
[MATH 1342 \(T\) - Elementary Statistical Methods](#)  
[MATH 1350 \(T\) - Mathematics for Teachers I](#)  
[MATH 1351 \(T\) - Mathematics for Teachers II](#)  
[MATH 2412 \(T\) - Pre-Calculus Math](#)  
[MATH 2413 \(T\) - Calculus I](#)  
[MATH 2414 \(T\) - Calculus II](#)  
[MATH 2415 \(T\) - Calculus III](#)  
[PHYS 1303 \(T\) - Stars and Galaxies \(lecture\)](#)  
[PHYS 1401 \(T\) - College Physics I](#)  
[PHYS 1402 \(T\) - College Physics II](#)  
PHYS 1403 - Stars and Galaxies  
[PHYS 1404 \(T\) - Solar System](#)  
[PHYS 1405 \(T\) - Elementary Physics I](#)  
[PHYS 2425 \(T\) - University Physics I](#)  
[PHYS 2426 \(T\) - University Physics II](#)

### **% Additional Course**

An additional course from the lists above or [SPCH 1315](#) or [SPCH 1318](#) or [EDUC 1300](#) or [ENGL 2311](#) or [BCIS 1305](#)