HEATING, REFRIGERATION, & AIR CONDITIONING TECHNOLOGY
EVENING ACADEMIC GUIDE 2021-2022
Associate of Applied Science Degree Plan

The Academic Plan is a semester-by-semester plan for the full-time student. Part-time students should work with an advisor to customize the map to fit individual needs.

ACADEMIC PLAN			NOTES
Fall 1st Year		**Cr**	**Semester 1**
	COL101 Introduction to College	1	COL101 and Reading Proficiency are pre- reqs for some next semester course work
	HRA101 Electricity for HVAC	5	HRA101 with a grade of "C" or better is a pre-req for some next semester course work
	HRA105 Principles of Refrigeration	5	HRA105 with a grade of "C" or better is a pre-req for some next semester course work
	HRA150 Customer Relations & Record Keeping	2	
	MTH105 Industrial Math	3	
	Total Hours	**17**	
Spring 1st Year			**Semester 2**
	HRA125 Refrigeration and A/C Mechanical Systems	5	HRA125 with a grade of "C" or better is a pre-req for some next semester course work
	HRA160 Sheet Metal Sizing, Design, and Install	3	
	HRA145 Piping Design, Sizing, & Installation	3	
	CIS125 Computers Concepts Applications or Computer Literacy Exam	3	CIS125 or exam fulfills Computer Literacy graduation requirement
CORE 42 MOTRANSFER GUARANTEED	ENG101 English Composition I	3	
CORE 42 MOTRANSFER GUARANTEED	SOC101 General Sociology	3	
	Total Hours	**19**	
Fall 2nd Year			**Semester 3**
	HRA249 Commercial Refrigeration Systems	5	
	HRA135 Introduction to International Mechanical Code	3	
	HRA155 Duct, Envelope Testing and Leakage Detection	2	
	HRA230 Advanced Electricity for HVAC	3	
CORE 42 MOTRANSFER GUARANTEED	COM100 Fundamentals of Communication	3	
	Total Hours	**16**	
Spring 2nd Year			**Semester 4**
	HRA205 Residential Gas Heating System	4	
	HRA210 Electric and Hydronic Heat	2	
	HRA216 Residential Air-Conditioning Systems	3	
	HRA240 Heat Pumps and Mini Splits	3	
CORE 42 MOTRANSFER GUARANTEED	BIO109 Ecology and Environmental Conservation	3	
CORE 42 MOTRANSFER GUARANTEED	HST103 U.S. History I	3	
	Total Hours	**18**	

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Program Description:

The Associate of Applied Science degree or certificate prepare students for employment as installers or technicians in the rapidly growing and increasingly technical field of Heating, Refrigeration, and Air Conditioning.

Admission Requirements:

There are no specific admission requirements for this program. HRA coursework requires reading and a level of math proficiency. Certain general education coursework requires specific measures for placement. See www.jeffco.edu/future-students/admissions/math-english-placement or consult an advisor for more information.

Department Faculty Advisors: William Kaune & Kati Donahue

Associate Dean: Maryanne Angliongto

Employment Outlook/Median Salary*:

Career	Degree Level Required	** Growth	Median Annual Salary
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	Some Post-Secondary Required	15%	$45,910
Sheet Metal Workers	High School Diploma, Post-Secondary Preferred	9%	$46,940
Pipefitter	High School Diploma, Post-Secondary Preferred	16%	$51,450

**Employment information based on current Bureau of Labor Statistics Occupational Outlook Handbook. **Projected % of change in employment 2016-2026; the average for all occupations is 7%.*

Jefferson College Program Highlights:

The Heating, Refrigeration, and Air Conditioning Technology program at Jefferson College is accredited by HVAC Excellence, a national organization that has very rigorous standards for accreditation. The HVAC Excellence accreditation allows our students to take various industry recognized tests showcasing their employment readiness. The curriculum includes a full range of traditional Heating, Refrigeration, and Air Conditioning Technology training and new industry trends such as Mini-Split Systems and Solar Hot Water. The department has three labs each set up to be used for several different topics. The classes are set up so that a student can complete the program in two years attending either days or nights.

Transfer Information:

Courses with this symbol are guaranteed to transfer to any public college or university in Missouri.

Pursuing a higher degree? Get the most credit for your transfer and earn your Bachelor's degree from Missouri Baptist University by attending MBU courses at the Jefferson College, Hillsboro campus! The Associate of Applied Science degree in Heating, Refrigeration, and Air Conditioning Technology will transfer to Missouri Baptist University's Bachelor of Science in Applied Management.