

Jumpstart 2.0 Associate of Applied Science: Heating, Air Conditioning, and Refrigeration Postsecondary Partner: Nunez Community College

Overview

The Heating, Air Conditioning, and Refrigeration (HACR) program utilizes technical classroom instruction and real-life, hands-on lab exercises in shop for gainful employment opportunities as entry-level air conditioning and refrigeration helpers, installers, mechanics, and technicians. Students will: 1. Demonstrate the skills needed for entry and advanced career levels in air conditioning and refrigeration. 2. Demonstrate the ability to identify and safely use tools needed for air conditioning and refrigeration repairs. 3. Evaluate, apply, and perform suggested repair or replacement of air conditioning and refrigeration equipment for normal operation.

Capstone Credentials

Regional (Emerging)	Basic	Advanced	Fast Forward Advanced Plus
-OSHA 30	-EPA Section 608	-EPA Section 608	-Associate of Applied
	Certification	Certification AND Air	Science in HACR
	-HACR Certificate of	Conditioning	
	Technical Studies in	-HACR Technical	
	Helper 1 and Helper 2	Diploma	

^{*}Core Academic Course

^{**}Jump Start CTE Course

Grade 9				
Semester 1	Semester 2			
Technical Reading and Writing 125010	*English 120331			
Technical Math 165010	*Algebra I 160321			
*Physical Science 150802	*Physical Education I 190105			
Elective	*Civics 220501			

Grade 10				
Semester 1	Semester 2			
*Technical Writing 120350	*English II 120332			
*Math Essentials 160351	*Transition to College Mathematics 165040			
*Biology 150301	*1/2 Physical Education II 190106, ½ Health			
	Education 190500			
*U.S. History 220403	Elective			

Additional and/or equivalent TOPS core aligned courses can be found in Bulletin 741.





Grade 11				
Semester 1		Semester 2		
Postsecondary Course	LDOE Course/Code	Postsecondary Course	LDOE Course/Code	
*English Comp I ENGL	*English IV: DE - CENL	*College Algebra	*Algebra III: DE - CMAT	
1010	1013 English	MATH 1300	1213 College Algebra	
	Composition I 120606		160500	
HVAC Introduction		Electrical		
HACR 1150		Fundamentals HACR		
		1210		
Principles of		Electrical Components		
Refrigeration I HACR	Air Conditioning and	HACR 1220	Air	
1160	Air Conditioning and			
Principles of	Refrigeration I (3 credits) 310103	Electric Motors HACR	Conditioning/Refrigeration	
Refrigeration II HACR	credits) 310103	1230	II (3 Credits) 310113	
1170				
Principles of		Applied Electricity and		
Refrigeration III HACR		Troubleshooting		
1180		HACR 1240		

Grade 12				
Semester 1		Semester 2		
Postsecondary	LDOE Course/Code	Postsecondary	LDOE Course/Code	
Course		Course		
Natural Science		Humanities Elective		
Elective				
Residential Central	Air Conditioning/Refrigeration III (3 Credits) 310116	Behavioral Science		
A/C HACR 2510		Elective		
Residential Central		Residential Heat		
A/C II HACR 2520		Pumps HACR 2560	Air	
Residential System		Domestic		
Design HACR 2530		Refrigeration HACR	Conditioning/Refrigeration	
		1410	IV (2 Credits) 310118	
Residential Heating		Room Air	1V (2 Cledits) 310118	
2540		Conditioners HACR		
		1420		
		**Job Readiness	**DE Career Success Skills	
		Skills INDT 2900	080407	

This pathway framework is an outline of how the approved courses can be implemented. Schools may opt to rearrange the order of course sequencing in order to meet local scheduling requirements. Additionally, Fast Forward pathways are dynamic and the Jump Start Review Panel will consider course equivalents on an as needed basis.

