


Career Cluster: Architecture & Construction	CTE Program: 8723000 ~ Air Conditioning Refrigeration and Heating Technology Post Secondary Program: 0615050100 Air Conditioning Refrigeration and Heating Systems Technology AAS
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Career Cluster Pathway: Architecture & Construction	Secondary Industry Certification(s): 1. National Center for Construction Education & Research (NCCER) 2. North American Technician Excellence (NATE) 3. EPA Certification Post Secondary Industry Certifications: 1. HVAC Employment Ready Air Conditioning
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	17 1/2 REQUIRED CORE CREDITS					8 1/2 ADDITIONAL CREDITS	
	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	Additional Required Credits	8.5 Electives, including CTE sequential Program of Study and recommended electives * Signifies CTE course meets Performing Arts graduation credit requirement	
	4 credits		3 or 4 credits, 2 w/ lab	3 or 4 credits	HOPE, Performing Arts, and CRDM		

• Students are encouraged to begin planning for careers and postsecondary options by exploring resources at mycareershines.org.
 • Students are also encouraged to participate in dual enrollment courses which may be used to satisfy high school graduation or Bright Futures Gold Seal Vocational Scholars course requirements.
 • One course within the 26 credit program must be an online course. Cumulative GPA of 2.0 on a 4.0 scale for 26 credit program.

HIGH SCHOOL	9	English Honors 1	Geometry 1 Honors	Biology 1 Honors or Integrated Science 1 Honors	World History Honors	Career Research & Decision Making (.5cdt)/Elective (Keyboarding & Business Skills .5cdt)	A/C Refrigeration and Heating Technology 1	Elective (Foreign Language)
	10	English Honors 2	Algebra 2 Honors	Chemistry 1 Honors or Integrated Science 2 Honors	AP United States History or American History Honors	HOPE	A/C Refrigeration and Heating Technology 2	Elective (Foreign Language)
	11	AP English Language & Comp or English Honors 3	PreCalc or Advance Math Topics	Physics 1 Honors or Integrated Science 3 Honors	American Government Honors/ AP Economics	Performing Fine Arts (Speech or DE Speech SPC2608/ DE Art History ARH1051)	A/C Refrigeration and Heating Technology 3	Elective (Digital Information Technology)
	12	AP English Lit & Comp or DE English Comp 1 ENC1101/DE Technical Writing ENC2210	AP Calculus, AP Statistics or DE College Algebra MAC 1105/DE Statistics STA 2023	AP Bio OR AP Chem OR DE General Biology BSCC 1010 OR Physics Honors	AP Psychology or DE Psychology PSY2012/ DE Sociology SYG2000 or Sociology/ Psychology 1 Honors or Sports Psychology	Anatomy & Physiology Honors / DE Human Anatomy & Physiology 1 BSCC 2093	A/C Refrigeration and Heating Technology 4	Elective (Foreign Language)

Secondary career and technical education programs may lead to industry recognized certificates, occupational opportunities or postsecondary education options. Based on the Career Cluster of interest and identified CTE program, the following postsecondary options are available. The official college or university catalog must be used to determine course requirements in the major.

POSTSECONDARY	http://www.easternflorida.edu/academics/career-technical-programs/our-programs/		UNIVERSITY PROGRAM(S) Bachelors Degree (four-year)
			University of Central Florida
	Air Conditioning Refrigeration and Heating Technology PSAV		Management BS
			Mechanical Engineering BS
			Industrial Engineering BS

CAREER	Sample Career Specialties		
	Test and Balance Technician Cooling Towers Installer HVAC Equipment Installer Refrigeration Mechanics	HVAC Service Tech Solar-Energy-System Installer Chilled Water Operator Appliance Technician	Construction Management BS


CREDIT	Articulation and CTE Dual Enrollment Opportunities		
	Secondary to Technical Center (PSAV) (Minimum # of clock hours awarded per institution)	Secondary to College Credit Certificate or Degree (Minimum # of clock or credit hours awarded) Articulated credit to which courses and number of credits	Industry Certification to PSAV, AAS or AS (Statewide and other local agreements may be included here)
	Advance Standing Credit ACR 0122 (150 clock hrs), ACR 0106 (150 clock hrs), ACR 0608 (120 clock hrs) A total of 420 clock hours from EFSC	https://www.easternflorida.edu/admissions/registrar-office/credit-evaluation/leap/documents/hs/hvac-mou-2019.pdf	Eastern Florida State College: Florida Gold Standard Statewide Articulation Agreement for HVACE002, HVAC Excellence Employment Ready – Air Conditioning shall articulate 4 credit hours in the AAS in Air Conditioning, Refrigeration, Heating Systems Technology.

Career and Technical Student Association:

Skills USA

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	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	Additional Required Credits		
	4 credits	4 credits	3 or 4 credits, 2 w/ lab	3 or 4 credits	HOPE, Performing Arts, and CRDM		

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	10	English Honors 2	Geometry	Chemistry 1 Honors or Integrated Science 2 Honors	AP United States History or American History Honors	HOPE	A/C Refrigeration and Heating Technology 2	Elective (Foreign Language)
	11	AP English Language & Comp or English Honors 3	Algebra 2	Physics 1 Honors or Integrated Science 3 Honors	American Government Honors/ AP Economics	Performing Fine Arts (Speech or DE Speech SPC2608/ DE Art History ARH1051)	A/C Refrigeration and Heating Technology 3	Elective (Digital Information Technology)
	12	AP English Lit & Comp or DE English Comm 1 ENC1101/DE Technical Writing ENC2210	Advanced Math Topics, Pre-Calc or AP Statistics	AP Bio OR AP Chem OR DE General Biology BSCC 1010 OR Physics Honors	AP Psychology or DE Psychology PSY2012/ DE Sociology SYG2000 or Sociology/ Psychology 1 Honors or Sports Psychology	Anatomy & Physiology Honors / DE Human Anatomy & Physiology 1 BSCC 2093	A/C Refrigeration and Heating Technology 4	Elective (Digital Information Technology)


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Associate in Arts (AA) degrees are offered at all Florida Community Colleges and allow students to move on to complete a four-year degree.		

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- Career and Technical Student Association**
- Skills USA
 - Internship/Work Experience Recommendations**
 - Architecture and Construction Cooperative Education-OJT (8700400) internship
 - Student Progression Plan, on Brevard Public Schools web site, containing graduation requirements:**

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HIGH SCHOOL	9	English Honors 1	Algebra 1A	Biology 1 Honors or Integrated Science 1 Honors	World History Honors	Career Research & Decision Making (.5cdt)/Elective (Keyboarding & Business Skills .5cdt)	A/C Refrigeration and Heating Technology 1	Elective (Foreign Language)
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POS History		
Date	Attendess	Action Taken
Feb, 2015	Jim Johnson and Cindy Ivey	Updated
6/10/2020	R. Johnson	EFSC links