

Academy of Architecture & Construction

Career Cluster: Architecture & Construction

Program Strand: Air Conditioning, Refrigeration, and Heating Technology

Students who choose a career in Air Conditioning, Refrigeration, and Heating Technology are knowledgeable in all phases of modern construction including reading and interpreting drawings, masonry, carpentry, installing utilities, and computer applications related to the building construction industry.

Secondary Career Academy Development Timetable Academy classes are listed in bold type.

Pre-Academy Grades 6 – 8	Grade 9	Grade 10	Grade 11	Grade 12
6 th grade—Middle Moves* 7 th grade—Career Preparation Requirement* 8 th grade—Transition Tools*	English I	English II	English III	English IV
	Algebra or higher	Geometry or higher	Algebra II or higher	Pre-calculus or Other Mathematics Course
	Earth & Space Science or Biology	Biology or Chemistry	Chemistry or Physics or Physical Science	Science Elective or Other Elective
	World History	Elective	American History	American Government / Economics
	9 th Grade Transition**	Foreign Language or Other Elective	Foreign Language or Other Elective	Foreign Language or Other Elective
	Air Conditioning, Refrigeration, & Heating Technology 1 871301001	Air Conditioning, Refrigeration, & Heating Technology 3 871303001	Air Conditioning, Refrigeration, & Heating Technology 5 871305001	Air Conditioning, Refrigeration, & Heating Technology 7 871307001
	Air Conditioning, Refrigeration, & Heating Technology 2 871302001	Air Conditioning, Refrigeration, & Heating Technology 4 871304001	Air Conditioning, Refrigeration, & Heating Technology 6 871306001	Industrial Cooperative Education (I.C.E.)***
Elective	Elective	Elective**	Industrial Cooperative Education (I.C.E.)***	

Suggested Electives:

- Students may in their Junior or Senior year opt to participate in the Career Experience Opportunity (CEO) internship program using the following course number: Workplace Essentials – 83003101A (Honors .5) and CEO internship – 0500330CE (Honors .5).
- Students may complete more than one program within the Academy of Architecture and Construction providing courses are offered at the school site.
- In addition, students can choose to enroll in Business and Marketing classes to enhance their marketability.

To find a Miami-Dade County Public High School with this Program Strand, please link to http://ssr.dadeschools.net/acad_tally_schls.pdf.

Internship Opportunities	Student Organizations / Clubs	Earn Upon Completion
<ul style="list-style-type: none"> • Internship • Job Shadowing • School-Based Enterprise • Service Learning • Dual Enrollment • Portal to CEO 	<ul style="list-style-type: none"> • SkillsUSA 	<ul style="list-style-type: none"> • Industry Title & FLDOE OCP's correlated to the individual areas. • For more information on the Florida Department of Education Bright Futures Scholarship Programs: Florida Academic Scholars Award (FAS), Florida Medallion Scholars Award (FMS), and Florida Gold Seal Vocational Scholars Award (GSV) please contact a guidance counselor or visit: http://www.floridastudentfinancialaid.org/ssfad/factsheets/BF.htm. • For more information on advanced standing at local public and private post secondary institutions as established per articulation agreements please contact a guidance counselor.

POSTSECONDARY OPTIONS

Certification Programs	Community College (A.A./A.S.) or Proprietary Programs	Four-Year College and University Programs	Other
<ul style="list-style-type: none"> • EPA Refrigerant Products 	<ul style="list-style-type: none"> • Associate Of Applied Science In Heating, Ventilation, Air-conditioning and Refrigeration Technology 	<ul style="list-style-type: none"> • Heating, Ventilation, Air-Conditioning, and Refrigeration Technology 	<ul style="list-style-type: none"> • On the job training

CAREER OPTIONS

Entry Level	After Post-Secondary Education
<ul style="list-style-type: none"> • A/C Refrigeration & Heating Assistant • Ducting Assistant 	<ul style="list-style-type: none"> • Heating, Ventilation, Air-Conditioning, and Refrigeration Technician