Academy of Architecture & Construction Career Cluster: Architecture & Construction

Program Strand: Drafting / Illustrative Design TechnologyStudents who choose a career in Drafting/Illustrative Design Technology produce technical drawings and plans that are used in construction, architecture, and engineering. Their drawings show details and dimensions, explain procedures, and list materials.

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
6th grade—Middle Moves 7th grade—Career Preparation Requirement 8th grade—Transition Tools MJ Wheel 8600020015 Introduction to Technology 860001001 Exploring Technology 860002012 Exploration of Communications Technology 860003001 Exploration of Production Technology 860005001	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
	Drafting/Illustrative Design Technology 1 860081001	Drafting/Illustrative Design Technology 2 860082001	Drafting/Illustrative Design Technology 3 860083001 (Honors)	Advanced Technology Applications 860190001 (Honors)
	Elective	Elective	Elective	Elective
	Elective	Elective	Elective	Elective

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 numbers: 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 Materials and Processes Technology or Construction Technology 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
Internship Cooperative Education Job Shadowing School-Based Enterprise Service Learning Dual Enrollment Portal to CEO	 Technology Student Association (TSA) SECME U.S. FIRST Robotics League 	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 quidance counselor.

POSTSECONDARY OPTIONS

Certification Programs	Community College (A.A./A.S.) or Proprietary Programs	Four-Year College and University Programs	Other
Drafting AutoCAD Robert Morgan Educational Center Miami Lakes Educational Center	Associate Of Applied Science In Construction Technology Drafting Technology Computer Drafting A.S. Residential Drafting A.S. Miami Lakes Educational Center Miami Dade College Robert Morgan Educational Center	Architecture Civil Engineering Construction Technology Drafting and Design Technology Mechanical Engineering Surveying Design Engineering Univ. of Florida College of Design, Construction and Planning	On the job training Technical Institute

CAREER OPTIONS

Entry Level	After Post-Secondary Education	
 Assistant Drafter Junior Drafter Engineer Assistant Manufacturing CNC Machine Operator Production Modeler Assistant 	 Architect Civil Engineer Senior Drafter Technical Illustrator CNC Tool Designer TV or Movie Set Designer Industrial Designer Engineering Technician Surveyor Mechanical Engineer 	