

Academy of Engineering

Career Pathway: Science, Technology, Engineering & Mathematics

Program Strand: Electronics Technology

Students who choose a career in Electronics Technology have the technical skills in electrical circuitry, systems analysis and testing, and instrument preparation to assist engineers and put engineering ideas into action.

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 MJ Wheel 8600020015 Introduction to Technology 860001001 Exploring Technology 860002012 Exploration of Production Technology 860005001 Exploration of Aerospace 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
	Electronics Technology 1 860091013	Electronics Technology 2 860092023	Electronics Technology 3 860093033 (H)	Advanced Technology Applications 860190001 (H)
	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 Engineering providing courses are offered at the school site.
- In addition, students can choose to enroll in Drafting/Illustrative Design Technology 1-3 Power & Energy, or Electronics 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
<ul style="list-style-type: none"> • Internship • Cooperative Education • Job Shadowing • School-Based Enterprise • Service Learning • Dual Enrollment • Portal to CEO 	<ul style="list-style-type: none"> • Junior Engineering and Technical Society • SECME • Technology Student Association (TSA) • U.S. FIRST Robotics League 	<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
<ul style="list-style-type: none"> • Engineering Technology • Associate Engineering Technologist • Certified Engineering Technician - Fire Alarm Systems • Miami Dade College School of Computers and Engineering • Lindsey Hopkins Technical Education Center • Robert Morgan Ed. Center 	<ul style="list-style-type: none"> • Manufacturing Engineering Technology • Engineering Technology • Drafting • Pre-engineering • Miami Dade College School of Computers and Engineering 	<ul style="list-style-type: none"> • Civil Engineering • Electrical Engineering Technology • Biomedical Engineering • Robotics & Mechatronics Technology • Environmental Engineering • Florida International University College of Engineering and Computing • Univ. of South Florida College of Engineering • Univ. of Central Florida Mechanical, Materials and Aerospace Engineering Dept. • Florida A & M University and Florida State University College of Engineering • Univ. of Florida College of Engineering

CAREER OPTIONS

Entry Level	After Post-Secondary Education
<ul style="list-style-type: none"> • Biomedical Electronics Assistant • Electrical Sales • Home Entertainment Installer & Repairer • Digital Equipment Technician • Computerized Programmable Controller • Audio Technician 	<ul style="list-style-type: none"> • Aircraft and Avionics Technician • Computer Hardware Engineer • Electrical Engineer • Engineering Technician • Physicist • Computer Networking Engineer • Telecommunications Engineer • Science Technicians