

Program Strand: Technology Studies

Students who choose a career in Technology Studies understand the role of technology in everyday life along with the broad range of technology skills which are involved within the fields of engineering, design, invention, construction, information technology, and innovation.

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	English I	English II	English III	English IV
7 th grade—Career Preparation Requirement	Algebra or higher	Geometry or higher	Algebra II or higher	Pre-calculus or Other Mathematics Course
8 th grade—Transition Tools	Earth & Space Science or Biology	Biology or Chemistry	Chemistry or Physics or Physical Science	Science Elective or Other Elective
MJ Wheel 8600020015 Introduction to Technology 860001001	World History	Elective	American History	American Government / Economics
Exploring Technology 860002012	9 th Grade Transition	Foreign Language	Foreign Language	Foreign Language
Exploration of Production Technology 860005001	Technology Studies 1 860051001	Technology Studies 2 860061001	Technology Studies 3 860071001 (H)	Advanced Technology Applications 860190001 (H)
Exploration of Aerospace Technology 860005001	Elective	Elective	Elective	Elective
Exploration of Transportation Technology 860024002	Elective	Elective	Elective	Elective
Exploration of Power & Energy Technology 860025002				

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"> • Technology Student Association (TSA) • U.S. FIRST Robotics League • SECME • Junior Engineering and Technical Society 	<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 	<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"> • Engineering Assistant • Telecommunications Technician • Computer Network Systems Assistant • Digital Equipment Technician • Computerized Programmable Controller • Audio Technician 	<ul style="list-style-type: none"> • Network Engineer/Administrator • Technical Support Specialist • Systems Engineer/Administrator • Industrial Research Scientist • Digital Communications Administrator • Consultant • Inventor