

Academy of Automotive Industries

Career Cluster: Transportation, Distribution & Logistics

Program Strand: Transportation Technology

Students who choose a career in Transportation Technology study power systems and the kinds and sources of energy, both renewable (i.e. wind, solar, nuclear) and nonrenewable (fossil fuels). They use design principles used to evaluate existing designs, to collect data, and to guide the design process.

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 Transportation Technology 860024002 Exploration of Power & Energy Technology 860025002	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
	Transportation Technology 1 860121013	Transportation Technology 2 860121023	Transportation Technology 3 860121033 (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 Automotive Industries providing courses are offered at the school site.
 - In addition, students can choose to enroll in Drafting/Illustrative Design Technology 1-3 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 • U.S. FIRST Robotics League • Technology Student Association (TSA) • SECME 	<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"> • ASE Master Tech • Automotive Technician • D. A. Dorsey Vocational Ctr. Automotive Dept. • Miami Lakes Educational Center • Robert Morgan Ed. Center Honda Program • Lindsey Hopkins Technical Education Center 	<ul style="list-style-type: none"> • Hydraulics and Fluid Power Technology • Pre-engineering 	<ul style="list-style-type: none"> • Transportation Engineering • Nuclear Engineering Technology • Civil Engineering • Power & Mechanical Engineering • Florida International University College of Engineering and Computing 	<ul style="list-style-type: none"> • On the job training • Apprenticeship

CAREER OPTIONS

Entry Level	After Post-Secondary Education
<ul style="list-style-type: none"> • Helpers or Laborers • Sales Representative • Independent Business Owner • Construction Worker 	<ul style="list-style-type: none"> • Transportation Engineer • Rail Systems Designer • Civil Engineer • Fossil-Fueled Power Plant Operator • Mass Transit Project Manager • Control Room Operator • Power Plant Distributor • Meteorologists