

Academy of Aviation/Aerospace

Career Cluster: Transportation, Distribution & Logistics

Program Strand: Power & Energy Technology

Students who choose a career in Power and Energy Technology with a focus on aviation/aerospace technology work with or operate a variety of systems, such as jet, rocket, hydraulic, pneumatic, electric, wind and solar. They may use traditional tools, as well as electronic and computerized equipment to diagnose, service, and repair prop planes, jets, gliders or spacecraft.

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 Aerospace Technology 860005001 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 |
| | Power & Energy Technology 1 860131002 | Power & Energy Technology 2 860132001 | Power & Energy Technology 3 860133002 (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 Aviation/Aerospace providing courses are offered at the school site.
- In addition, students can choose to enroll in Drafting/Illustrative Design Technology or Transportation Technology classes to enhance their marketability.

To find a Miami-Dade County Public High School with this Program Strand, please link to http://sr.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"> • FAA Aircraft Mechanic • Aircraft Pilot License • Aircraft Engine Specialist • RADAR Electronics Technician • FAA Aviation Maintenance Technician • George T. Baker Aviation | <ul style="list-style-type: none"> • Aeronautical Science • Air Traffic Management • Aircraft Piloting • Miami Dade College | <ul style="list-style-type: none"> • Mechanical Engineering • Aeronautical Science • Avionics Engineering • Florida Memorial University • Embry Riddle University • Univ. of Central Florida Mechanical, Materials and Aerospace Engineering | <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"> • Aircraft Maintenance Worker • Cargo and Freight Agents • Avionics Technician Assistant • Airline Mechanic Assistant | <ul style="list-style-type: none"> • Sheet Metal Mechanic • Engine Assembler • Commercial Airline Pilot • Aircraft Designer • Turbine Power Engineer • Air Traffic Controller • Aircraft Mechanical Safety Inspector • Aerospace Engineer • Astronaut |