

Academy of Agriculture Technology

Career Cluster: Agriculture, Food & Natural Resources

Program Strand: Environmental Resources

Students who choose a career in Environmental and Natural Resource Ecology design, develop, and evaluate structures, equipment, and systems that protect the environment from the effects of human activity and that improve public health and well-being. This strand prepares students for employment or advanced training in the horticulture and landscape industries.

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 <i>Requirement</i> 8 th grade—Transition Tools Introduction to Agriscience 810012002 Orientation to Agriscience 810011011 Exploration of Agriscience 810021002	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
	<i>Agriscience Foundations 1</i> <i>810681002</i>	<i>Agricultural Biotechnology 2</i> <i>810685001 (H)</i>	<i>Environmental Resources 3</i> <i>811301001 (H)</i>	<i>Environmental Resources 4</i> <i>811302001 (H)</i>
	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 Agriculture Technology providing courses are offered at the school site.
- In addition, students can choose to enroll in Advanced Concepts of Agriscience, Agricultural Education Directed Study, AP Environmental Science, and Botany 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"> • The National FFA Organization • Miami-Dade County Fair & Exposition Agriculture Ambassadors Program • United States Department of Agriculture – Ambassador Program • 4-H Club 	<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"> • Florida Nursery, Growers and Landscapers Association (FNGLA) • Floral Design • American Biofuels Council • FNGLA Certifications 	<ul style="list-style-type: none"> • Horticultural Science • Environmental Science • Turf Grass Operations • Irrigation Installation/Management • Lake City Community College Agricultural Programs • Hillsborough Community College Environmental Sciences • Miami Dade College Agricultural Programs 	<ul style="list-style-type: none"> • Environmental Chemistry • Forest Resources & Conservation • Life Science • Environmental Science • Geology • Geophysics • Atmospheric Science • Physics • Environmental Engineering <p> University of Florida College of Agricultural and Life Sciences Florida Agricultural and Mechanical University Environmental Sciences </p>

CAREER OPTIONS

Entry Level	After Post-Secondary Education
<ul style="list-style-type: none"> • Plant Propagator • Research Assistant • Laboratory Technician • Independent Business Owner • Nursery Worker 	<ul style="list-style-type: none"> • Agribusiness Manager • Environmental Consultant • Environmental Scientist • Extension Agent • Natural Resource manager • Sales Representative • Federal or State Government Environmental Regulator • Environmental Engineer • Agricultural Engineer • Ecological Modeler • U.S. Forest Service