



## PURPOSE

The vision of the Academy for Aquatic Management Systems and Environmental Technology (AMSET) is to inspire students who have a strong interest in the areas of Aquaculture and Environmental Resources to put their passion into practice either in the workforce or in postsecondary education. Students will work directly with the care and breeding of aquatic plant and animal species for the purpose of consumption or environmental restoration. The program will provide students with the knowledge to pass industry certification exams through the Florida Farm Bureau. With current population trends, persons experienced in aquaculture and ecosystem management will be in demand. Possible careers include:

- Marine Biologist
- Fisheries Manager
- Ecologist
- Environmental Engineer
- Environmental Scientist
- Park Ranger
- Law Enforcement
- Aquaculture

## PROGRAM OBJECTIVES

- To provide extensive opportunity for field-based research.
- To provide special training in the environmental sciences: ecology, marine biology, water resources and conservation management.
- To develop career skills through practical experience, internships and independent study.
- To equip students with the knowledge and skills to become responsible and productive world citizens.

***Are you ready to get your feet wet  
and your hands sandy?***

## ENVIRONMENTAL ORGANIZATION PARTNERS

Tampa Bay Watch  
 Florida Marine Research Institute  
 Southwest Florida Water Management District  
 Tampa Bay Technical Institute  
 Pinellas County Water Quality Department  
 National Estuary Program  
 Audubon Society  
 Florida Native Plant Society  
 Eckerd College  
 St. Petersburg College  
 Crescent Lake Association  
 Aquatic Obsessions Dive Shop  
 SCUBA Naughts St. Petersburg Chapter

## ACADEMY FOR MARINE SCIENCE AND ENVIRONMENTAL TECHNOLOGY

**Lakewood High School**  
 1400 54th Ave. S, St. Petersburg, FL 33701  
 (727) 893-2916

**Robert Vicari** - Principal

**Pete Oberg** - Assistant Principal

**James Kostka** - Lead Teacher

[www.lakewood-hs.pinellas.k12.fl.us](http://www.lakewood-hs.pinellas.k12.fl.us)



THE ACADEMIES OF PINELLAS

CAREER ACADEMIES

CENTERS OF EXCELLENCE

CAPE ACADEMIES

THEMED PROGRAMS



The School Board of Pinellas County, Florida, prohibits any and all forms of discrimination and harassment based on race, color, sex, religion, national origin, marital status, age, sexual orientation or disability in any of its programs, services or activities.

[www.pcsb.org](http://www.pcsb.org)

## Academy for Aquatic Management Systems & Environmental Technology LAKEWOOD HIGH SCHOOL



**Explore your world!  
 Challenge your mind!  
 Prepare for the future!**



THE ACADEMIES OF PINELLAS

CAREER ACADEMIES

CENTERS OF EXCELLENCE

CAPE ACADEMIES

THEMED PROGRAMS

# program of study



## PROGRAM ATTRIBUTES

- Two-acre outdoor classroom where students apply laboratory skills, develop and implement a management plan.
- Care and transplant salt marsh grass (*Spartina alterniflora*) from our nursery with the guidance of Tampa Bay Watch.
- Hands-on and project-based learning that also benefits the St. Petersburg community.
- Eligibility for Bright Futures/ Gold Seal Scholarships.
- Training to enter and be successful in the workplace.
- Senior research project and presentation at the Marine and Environmental Science Seminar.
- Attend professional conferences and interact with local and federal agencies involved with the environment.



## RECOMMENDED COURSE PROGRESSION

### YEAR 1

- Agriscience Foundations (Industry Certification)
- Algebra or Geometry
- Honors English I or English I
- Biology Honors or Earth Science
- HOPE
- Personal, School, Career Development
- Foreign Language or FCAT Preparation (if needed)

### YEAR 2

- Agricultural Biotechnology (Industry Certification)
- Algebra II or Geometry
- Honors English 2 or English 2
- Chemistry (Honors) or Biology (Honors)
- World History (Honors)
- Foreign Language
- Elective or FCAT Preparation (if needed)

### YEAR 3

- Aquaculture or Environmental Resources
- Calculus or College Preparation Math
- Honors English 3 or English 3
- American History (Honors)
- Physics or Chemistry
- Foreign Language
- Electives (Fine Art or other)



### YEAR 4

- Continuation of Aquaculture or Environmental Resources
- Advanced Math Elective or Calculus
- Honors English 4 or English 4
- Economics and American Government
- Science Elective
- Foreign Language or Elective
- Elective

### AMSET Recommended Electives

- Honors Marine Science 1 and 2
- AP Environmental Science
- AP Biology
- AP Chemistry or Physics
- Ecology
- Spanish or French
- Technical Focus
  - Digital Design
    - Introduction to Information Technology
    - Digital Design 1
    - Digital Design 2
  - Web Design
    - Introduction to Information Technology
    - Web Design 1