

RECOGNITION

Newsweek Magazine, Top 100 High Schools in the U.S., 2005, 2006, 2007, 2008
US News and World Report, Top High Schools List, 2008
United States Department of Education Blue Ribbon School, 2006
Florida Department of Education, Recognition as "A" School 2001, 2002, 2004, 2005, 2006, 2007, 2008
U.S. Department of Education New American High School Showcase Site, 2000
State of Florida High-Performing School, 1999
Magnet School of Merit, Magnet Schools of America, 1996, 1998
United States Department of Education Blue Ribbon School, 1994-1996
Redbook Magazine, Best Schools Award for Parent/Community Involvement, 1994.
Fourth Annual BusinessWeek Award for Instructional Innovation, 1993

INTERNSHIPS

MAST Academy requires students to get a headstart on career options by taking advantage of internship placements throughout the community. Internship placement opportunities have included: Royal Caribbean Cruise Lines, the Port of Miami, local newspapers, quality hotels and restaurants, United States Coast Guard, National Oceanic and Atmospheric Administration, University of Miami Rosenstil School of Marine and Atmospheric Science, hospitals, Southeast Fisheries, marinas, Department of Environmental Resource Management, Cape Florida, state and international banks, Florida International University.

SCHOOLS AND COLLEGES

Since 1994, college acceptances have come from Amherst, Auburn, Boston University, Brown, Cal Tech, Clark, the Coast Guard Academy, Cornell, Dartmouth, Duke, Emory, Georgia Tech, Grinnell, Harvard, Haverford, Holy Cross, Howard, Johns Hopkins, Mt. Holyoke, MIT, The Naval Academy, Oberlin, Princeton, Reed, Rollins, Rutgers, Smith, Stetson, Swarthmore, University of Chicago, University of Miami, University of Pennsylvania, Webb Institute of Naval Architecture, Wellesley, Wesleyan, West Point, Williams, Vassar, Yale, and schools throughout the Florida state university system.

GRADING SYSTEM

A=4 points B=3 points C=2 points D=1 point F=0 points

AP courses earn two bonus points and honors courses earn one bonus point. Dual enrollment bonus points vary according to rigor of course.

Class standing is computed at the end of the 6th semester and again at the end of the 7th semester.

SCHOLASTIC APTITUDE (SAT) TEST PERFORMANCE 2008

	Critical Reading	Math	Writing	Total
National	502	515	494	1511
Florida	496	497	481	1474
MAST Academy	569	570	554	1693

ACT TEST PERFORMANCE 2008

	State	National	MAST
English	19.0	20.6	24.5
Math	20.0	21.0	24.8
Reading	20.3	21.4	25.3
Science	19.3	20.8	23.7
Composite	19.8	21.1	24.8

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MAST Academy

Maritime and Science Technology High School
A Nationally Recognized School of Excellence

Charting a Course for Success

2008-2009

Miami-Dade County Public Schools

MISSION

MAST Academy provides a marine setting and nurturing environment for studies leading to academic success, career preparation, an appreciation of the sea, and environmental awareness. Stakeholders work together to instill a commitment to life-long learning and to advance and improve a challenging curriculum integrated with the sciences and technology.

SCHOOL DESCRIPTION

MAST Academy, established in September 1991, is the only maritime and science technology magnet high school in the Miami-Dade County Public School system. MAST graduated its fifteenth senior class in 2008. Ninety percent of the class of 2008 qualified for Florida Bright Futures. The school is staffed by a principal, one assistant principal, one lead teacher, and 46 full and part-time faculty members of whom approximately 68 percent have a master's degree or higher. Fifteen percent are National Board certified teachers. The student-teacher ratio is 1:23. MAST Academy is accredited by the Southern Association of Colleges and Schools.

MAST has 550 students in grades 9-12. The school includes a pool, boathouse and docks, fitness center, high-tech auditorium, and a media center with over 18,500 print and non-print items. Five large atrium areas are used for student and teacher projects, professional displays, and museum exhibits. Science classes are equipped with the latest laboratory equipment and computers are available throughout the school.

SPECIAL FEATURES

College-like master schedule
Curriculum Majors:
 Marine Studies and Culture
 Maritime Related Industries
 Oceanic and Atmospheric Science Technology
29 credits for graduation (5 above district requirement)
Four years of mathematics and science
Internship, or Independent Study
Summer reading list, grades 9-12
United States Coast Guard JROTC Program (the only one in the nation)
Required summer preparation program prior to 9th grade entrance.

PROGRAM OF STUDY

Students may enroll in regular, honors, Advanced Placement (AP) and dual enrollment (DE) courses upon meeting course entrance criteria. Students take 17 required core academic courses, 7 electives related to a curriculum major and career plan, and 5 general elective courses.

MATHEMATICS

Advanced Topics in Math
Algebra I, II
AP Calculus AB
AP Statistics
Discrete Math
Geometry

Honors Algebra II
Honors Geometry
Honors Pre-Calculus
Honors Calculus

SCIENCE (ALL LAB-BASED)

Earth/Space Science
Biology
Chemistry
Honors Marine Science
Honors Biology
AP Biology
AP Chemistry
DE Marine Geology
DE Astronomy

AP Physics
Honors Chemistry
AP Environmental Science
Physics
Honors Physics
Honors Solar Energy I-II
Environmental Science
DE Social Issues in Biology
DE Natural Hist. of South FL

ENGLISH

English I-IV
Creative Writing I, II
Classical Literature
Contemporary Literature
Intensive Reading
AP Literature/Comp.
AP Language/Comp.
Yearbook I-IV

Newspaper I-IV
Honors English I-IV
Great Books
Television Production
Theatre History & Literature I, II
Film Studies I, II
Critical Thinking Skills

SOCIAL STUDIES

AP U.S. History
Hon. American Gov/Econ.
Honors American History
World History

Hon. World History
AP U.S. Gov/Econ. (Micro & Macro)
AP Human Geography

LANGUAGES

Spanish I-III
AP Spanish Language
AP French Language
French I-IV

Latin I-III (FLVS)*
Spanish S I-IV (for native speakers)

THE ARTS

Computer Graphics
Instrumental Techniques
AP Art History *

Instrumental Ensemble
Art 2D/3D
Ceramics

INTERNSHIP/LEADERSHIP/RESEARCH

Executive Internship
Research I-IV
Leadership Skills Development

PHYSICAL EDUCATION/HEALTH

Beginning Swimming
Individual & Dual Sports I, II
Personal Fitness
Intermediate Swim/Snorkeling

Health/Life Management
Water Safety/SCUBA
Beginning & Intermediate
Weight Training

FOOD SERVICES/HOSPITALITY

Food Production I-III
DE Careers in Hospitality

DE Introduction to Culinary Arts

INDUSTRIAL TECHNOLOGY

Materials and Processes Technology I-III

BUSINESS AND INDUSTRY OPERATIONS

Accounting I, II
AP Computer Science
Technology in the Classroom
Web Design I, II (FLVS) *
DE Engineering: Drawing
DE Intro. to Engineering

Maritime Science
(JROTC) I-IV
Information Technologies 2000
Engineering I, II

**Florida Virtual School Course*

STUDENT BODY

The school's ethnic breakdown is 48% Hispanic, 18% Black, 25% White Non-Hispanic, 5% Asian/other.