

# MAST Academy

3979 Rickenbacker Causeway, Miami, FL 33149 • 305.365.6278 • Fax 305.361.0996  
www.gomakos.org • CEEB/ACT Code 101161 • School Profile 2024-25

## School Background

Established in September 1991, MAST Academy is the only maritime and science technology magnet high school in the Miami-Dade County Public School system. The school graduated its 31<sup>st</sup> senior class in 2024. The school is staffed by a principal, three assistant principals, one lead teacher, and 90 full time faculty members of whom approximately 52 percent have a master's degree or higher. The senior class of 2024 consists of 244 seniors.

MAST has over 1560 students in grades 6-12. Students graduate with a full range of honors, AP, Cambridge (AICE) and Dual Enrollment courses. The school includes two large classroom buildings, a pool, boathouse, docks, fitness center, and a newly remodeled media center with access to both print and non-print resources. Students have immediate access to technology throughout the school. MAST is proud to offer the Duke of Edinburgh International Award Program to our students.

## Accreditation and Membership

MAST Academy is fully accredited by AdvanceEd.

## School Recognitions

Magnet Schools of America Theme-Based Innovation Award, 2024  
Magnet Schools of America Top Performing Magnet School of Excellence, 2024  
Magnet Schools of America, Distinction and Excellence Awards, 2013 – 2024  
Magnet Schools of America Demonstration School, 2019, 2023  
Florida Department of Education, Recognition as "A" School 2001-2002, 2004-2024  
US Department of Education Green Ribbon School, 2019  
*Washington Post*, Best High Schools list, 2008-2018  
*Newsweek*, Top 100 High Schools in the U.S., 2009-2017  
State of Florida High-Performing School, 1999-2019  
*US News and World Report*, Top High Schools List, 2008-2019  
United States Department of Education Blue Ribbon School, 1994-1996, 2006

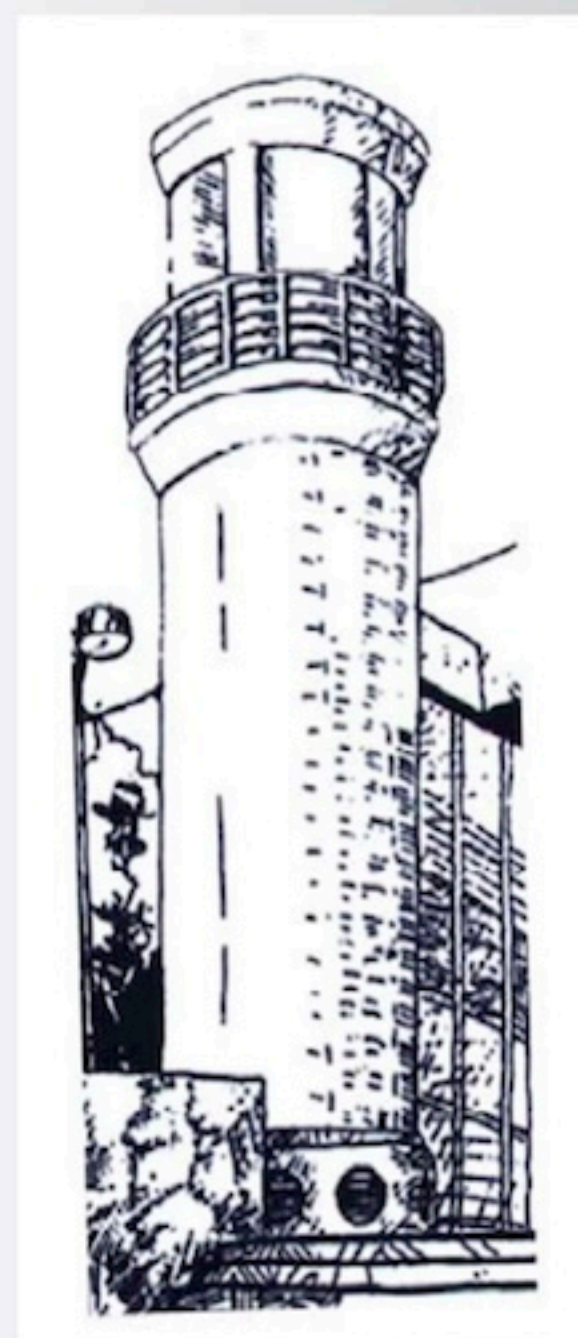
## Graduation Requirements

Thirty credits are required for graduation, and the student must earn 28 of these credits in grades 9-12. In addition to the total credit requirement, specific subject requirements are:

	Maritime	Cambridge STEM	Cambridge Global
English	4.5 credits	4 credits	4 credits
Social Sciences	3.5 credits	3 credits	4 credits
Mathematics	5 credits	5 credits	5 credits
Science	6 credits	6 credits	5 credits
World Language	2 credits (Spanish, French, Italian)		4 credits or AP or AS Level Course
Fine Arts	1 credit	1 credit	1 credit
Physical Education	1 credit	1 credit	1 credit
Academic Electives	9 credits	9 credits	9 credits
<b>TOTAL</b>	<b>30 credits</b>	<b>30 credits</b>	<b>30 credits</b>

## Programs

All students attending MAST Academy are part of one of three highly acclaimed, academically rigorous Magnet programs with distinct curriculums. The Maritime and Science Technology program weaves maritime studies throughout a student's high school career culminating in an internship experience with local businesses, research institutions, or government offices. Students in the school's Cambridge STEM and Global programs pursue a Cambridge Diploma. Advanced coursework in their discipline, STEM competitions, and language study are the norm for our burgeoning global citizens.



Principal  
Dr. Michael Gould  
[gouldm@dadeschools.net](mailto:gouldm@dadeschools.net)

Assistant Principal  
Giuseppe Semeraro  
[gsemeraro@dadeschools.net](mailto:gsemeraro@dadeschools.net)

Assistant Principal  
Mariam Torossian  
[marina@dadeschools.net](mailto:marina@dadeschools.net)

CAP Advisor  
Cristina Delgado-Ruiz  
[cdelgado@dadeschools.net](mailto:cdelgado@dadeschools.net)

Counselor/Dept. Chair  
Kelly Apolar  
[kapolar@dadeschools.net](mailto:kapolar@dadeschools.net)

Lead Teacher  
Melissa Fernandez  
[249191@dadeschools.net](mailto:249191@dadeschools.net)

## Mission

*Maritime and Science Technology Academy focuses on diversity, environmental awareness, and technology. Our school incorporates a thematic and inquiry-based approach, problem-solving, and experiential learning to provide students with opportunities for life-long learning which impacts the global community.*



## Grading System

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

AP, AICE (A-level and AS level), and Dual Enrollment courses earn two bonus points and honors and Pre-AICE earn one bonus point.

Miami-Dade County Public Schools weighs Cambridge AICE level courses (AS) the same as Advanced Placement (AP) courses and Pre-AICE courses the same as Honors courses.

Specific class rankings and percentage rankings are not provided for graduates. Transcripts will provide student course histories, M-DCPS GPA Calculations, and in some cases test scores. DE, AP, AS and A level courses are taught at the same level of academic rigor but access to specific individual courses may be determined by the student's magnet program.

## Scholastic Aptitude Test (SAT) Performance 2023-2024

	State	MAST Academy
ERW Score	583	622
Math Score	550	609
Total	1015	1255

## ACT Performance 2022-2023

	State	MAST Academy
Composite	19.3	26.8

## Internships

MAST Academy requires students to get a head start on career options by taking advantage of internship placements throughout the community. Internship placement opportunities have included Cape Florida, Department of Environmental Resource Management, Florida International University, National Oceanic and Atmospheric Administration (NOAA), the Port of Miami, Royal Caribbean Cruise Lines, Southeast Fisheries, United States Coast Guard, University of Miami Rosenstiel School of Marine and Atmospheric Science, The *Miami Herald*, quality hotels and restaurants, hospitals, marinas, and various research agencies.

## Student Body

The school's ethnic breakdown is 72% Hispanic, 2% Black, 24% White Non-Hispanic, 2% Asian. The Class of 2024 included 1 Presidential Scholar, 1 National Merit Scholarship winner, 5 National Merit Finalist, 3 Posse scholars and 2 QuestBridge scholars.

## AICE (Cambridge, AS and A Level)

Biology AS & A, Chemistry AS & A, English Language AS, English Literature AS & A, Environmental Management AS, French AS & A, Global Perspectives and Research, History AS & A, Marine Science AS & A, Media Studies AS & A, Psychology AS, Spanish A

## Advanced Placement (AP) Program

Biology, Calculus AB, Calculus BC, Career Kick Start Cybersecurity, Chemistry, Computer Science, Computer Science Principles, Environmental Science, European History, Human Geography, Italian Language, English Language & Composition, English Literature & Composition, Physics C: Electricity & Magnetism, Physics C: Mechanics, Spanish Language, Spanish Literature, Statistics, US Government, US History, World History

## Dual Enrollment

Introduction to Literature, Modern American History, World Literature 1, Writing & Rhetoric 2

## College and University Enrollment

American University  
Amherst College  
Auburn University  
Babson College  
Baylor University  
Boston College  
Boston University  
Brandeis University  
Brown University  
Bucknell University  
Catholic University  
Carnegie Mellon University  
Clemson University  
Colgate University  
College of Charleston  
College of William & Mary  
Columbia University  
Cooper Union  
Cornell University  
Dartmouth University  
Davidson College  
Duke University  
Embry-Riddle Aeronautical University  
Emerson College  
Emmanuel College  
Emory University  
Florida International University  
Florida State University  
Fordham University  
George Washington University  
Georgia Tech University  
Hamilton College  
Harvard College  
Hawaii Pacific University  
High Point University  
Indiana University  
Ithaca College  
John Hopkins University  
Lesley University  
Loyola University, Maryland  
Loyola University, New Orleans  
Macalester College  
Massachusetts Institute of Technology  
Miami-Dade College Honors  
Mount Holyoke  
New College of Florida  
New York University  
Northeastern University  
Northwestern University  
Pennsylvania State  
Purdue University  
Santa Fe College  
Savannah College of Arts and Science  
Spelman College  
Stanford University  
Stony Brook University  
Syracuse University  
The New School  
Tufts University  
Tulane University  
University of California Berkley  
University of California Los Angeles  
University of Chicago  
University of Colorado Boulder  
University of Florida  
University of Miami  
University of Michigan  
University of North Carolina at Chapel Hill  
University of Southern California  
University of South Florida  
University of Texas at Austin  
University of Vermont  
U.S. Coast Guard Academy  
U.S. Naval Academy  
Vassar College  
Worcester Polytechnic Institute  
Williams College  
Yale University  
and schools throughout the Florida state university system