

MAST Academy

3979 Rickenbacker Causeway, Miami, FL 33149 • 305.365.6278 • Fax 305.361.0996
www.gomakos.org • CEEB/ACT Code 101161 • School Profile 2023-24

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 30th senior class in 2023. The school is staffed by a principal, three assistant principals, one lead teacher, and 85 full and part-time faculty members of whom approximately 52 percent have a master's degree or higher. The senior class of 2024 consists of 218 seniors.

MAST has over 1530 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.

Accreditation and Membership

MAST Academy is fully accredited by AdvanceEd.

Recognition

Magnet Schools of America, Distinction and Excellence Awards, 2013 – 2023
Magnet Schools of America, Demonstration School, 2019, 2023
US News and World Report, Top High Schools List, 2008-2023
Florida Department of Education, Recognition as “A” School 2001-2002, 2004-2023
US Department of Education Green Ribbon School, 2019
Newsweek, Top 100 High Schools in the U.S., 2009-2017
State of Florida High-Performing School, 1999-2019
Washington Post, Best High Schools list, 2008-2018
United States Department of Education Blue Ribbon School, 1994-1996, 2006
U.S. Department of Education New American High School Showcase Site, 2000

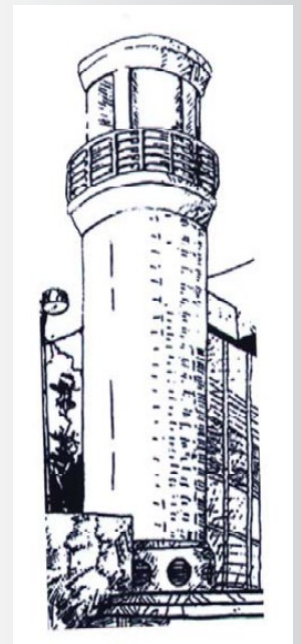
Graduation Requirements

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 (in same language: Spanish, French, German)		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
TOTAL	30 credits	30 credits	30 credits

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
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Assistant Principal
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CAP Advisor
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Counselor/Dept. Chair
Kelly Apolinar
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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 and AICE (A-level and AS level) courses earn two bonus points and honors and Pre-AICE earn one bonus point. Dual enrollment bonus points vary according to rigor of course.

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 June 2023

	State	MAST Academy
ERW Score	563	620
Math Score	535	607
Total	1097	1227

ACT Performance 2021-2022

	State	MAST Academy
English	19	26.6
Math	19.4	24.1
Reading	21.0	27.3
Science	19.4	25.4
Composite	20.4	26.0

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 73% Hispanic, 2% Black, 23% White Non-Hispanic, 1% Asian/other. The Class of 2023 included 1 Presidential Scholar, 3 National Merit Finalist, 2 National Merit Winners, 2 Posse scholars and 1 QuestBridge scholar.

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, German AS & A, Global Perspectives and Research AS & A, History AS & A, Marine Science AS & A, Media Studies AS & A, Psychology AS, Pure Math AS & A, Further Math AS, Spanish A

Advanced Placement (AP) Program

Biology, Calculus AB, Calculus BC, Chemistry, Computer Science, Computer Science Principles, Economics, Environmental Science, European History, Human Geography, Language & Composition, 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, World Literature 1, Writing & Rhetoric 2

College and University Admissions

American University
Amherst College
Babson College
Berklee College of Music
Boston College
Boston University
Bowdoin College
Brandeis University
Brown University
California Institute of Technology
Carnegie Mellon University
Colgate University
Columbia University
Concordia University (Montreal)
Cornell University
Dartmouth University
Davidson College
Denison University
Duke University
Embry-Riddle Aeronautical University
Emory University
Escuela Superior de Administración y Dirección de Empresas (ESADE)
Florida International University
Florida State University
Fordham University
George Washington University
Georgia Institute of Technology
Hamilton College
Harvard University
Howard University
Hult International Business School
IE University
Indiana University – Purdue University
John Hopkins University
Johnson & Wales University
Loyola University, New Orleans
Massachusetts Institute of Technology
McGill University
Miami-Dade College Honors
Mount Holyoke
New York University
Northeastern University
Northwestern University
Parsons School of Design at The New School
Penn State University
Pratt Institute
Princeton University
Purdue University
Rhode Island School of Design
Spelman College
Stanford University
Temple University
Texas A&M University
The American University of Paris
The Ohio State University
Trinity College Dublin
Tufts University
Tulane University
United States Air Force Academy
United States Coast Guard Academy
Universidad de Navarra
University of California Berkeley
University of California Los Angeles
University of California Santa Barbara
University of Chicago
University of Florida
University of Glasgow
University of Illinois at Urbana-Champaign
University of Massachusetts
University of Miami
University of Michigan
University of North Carolina at Chapel Hill
University of Notre Dame
University of Southern California
University of St. Andrews
University of Toronto
University of Washington
University of Wisconsin – Madison
Vanderbilt University
Vassar College
Wake Forest University
Wellesley College
Williams & Mary
Yale University
and schools throughout the Florida state university system