

MAST @ FIU

Biscayne Bay Campus



Shark tagging expedition with university researchers

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**MARINE ACADEMY OF SCIENCE & TECHNOLOGY (MAST)
AT FLORIDA INTERNATIONAL UNIVERSITY (FIU),
BISCAYNE BAY CAMPUS**

 [@mastfiubbc](https://twitter.com/mastfiubbc)



The Campus

The Biscayne Bay Campus (BBC) is a branch campus of Florida International University. With a student body of more than 7,000, it is the largest branch campus in Florida's State University System. Encompassing nearly 200 acres, the scenic campus offers direct access to the bay, apartment-style housing, a library, an aquatic center, a conference center and a ropes course. FIU's school of Hospitality and Tourism Management, Marine Biology, and Journalism and Mass Communication are headquartered at BBC. Our Campus offers numerous undergraduate majors and selected graduate degrees in Arts & Sciences.

Mission

To provide students with first-rate advanced academics and early career experiences in a university based, technology-rich environment.

About MAST@FIU BBC

The Marine Academy of Science and Technology at the Biscayne Bay Campus of Florida International University (MAST@FIU BBC) is a Science, Technology, Engineering, Mathematics (STEM) focused public high school that will enable students to complete up to two years of university course work at no cost.

We are the only university-based public high school in Florida. The school is the result of a unique public partnership between Miami-Dade County Public Schools and Florida International University.

MAST@FIU BBC is widely recognized for its innovative pedagogy and commitment to applied research and community involvement. The faculty and staff accentuate intellectual curiosity, multidisciplinary connections, critical thinking, problem-solving and global awareness. MAST students are mentored to become future leaders through a structured emphasis on integrity, the love of learning, global citizenship and excellence in all endeavors.



Opposite page: Students attend Thanksgiving Day Parade with Roary.

Science, Technology, Engineering and Mathematics

The overall curriculum focus of MAST@FIU BBC is marine science, environmental science and biology. However, inherent within that viewpoint is an instructional framework that is constructed around the interdisciplinary relationship that the faculty forms using Science, Technology, Engineering and Mathematics (STEM). The curriculum, which includes Honors, Advanced Placement and Dual Enrollment courses, is relevant, rigorous and advanced. Courses that are designated as Honors follow the curriculum prescribed by the course credit. It is awarded on the basis of academic grades and performance on an end of course examination.



Students hard at work in marine science class.

Interdisciplinary Education

All courses are interdisciplinary in nature and require extensive reading and writing. The availability of an eight period master course schedule allows students the opportunity to complete most of their required high school coursework in two years. Students are required to successfully complete prescribed research and virtual education courses during the first two years of enrollment. During this time, students are able to select a specific STEM program of study. Students in grades 11 and 12 may select from a variety of AP and DE courses that focus on each student's program of study. University-based research and internship opportunities are available to students in twelfth grade to further refine each student's career interest area.

Advanced Placement and Dual Enrollment

Courses that are designated as Advanced Placement (AP) and Dual Enrollment (DE) are eligible for college credit and are paid for by the school district. AP courses are available in all core subjects and grade levels. These courses are taught by the faculty at the MAST@FIU BBC. AP examinations are required in every AP course and are the basis for awarding college credit in each course. Students must receive a grade of "C" or better to receive high school credit for an AP course. Dual Enrollment courses are available to students in grades 9-12 and are taught by the faculty at FIU. Courses are offered on a semester basis.



Kayak adventure on nearby Biscayne Bay.



Application Standards

Incoming ninth grade students must have the following:

- A minimum of 2.5 Grade Point Average in each core academic subject area (e.g. language arts, mathematics, science, social studies) for the previous year and the first grading period of the current year combined
- A minimum of 2.0 Grade Point Average in conduct for the core academic subject areas (e.g. language arts, mathematics, science, social studies) for the previous year and the first grading period of the current year combined
- All effort grades in core academic classes must be a “2” or higher for the previous year and the first grading period of the current year combined.
- No more than 10 unexcused absences for the previous year and 5 unexcused absences for the first semester of the current year
- Physical Science Honors and Algebra I Honors must be completed and credit received before the next school year begins.

Visit www.miamimagnets.org to obtain and submit an application. All applications must be submitted electronically on or before January 15 of the following year.



Measuring lake salinity using student made sensors.



Students measuring salinity in surface water during October King Tide.



Benefits of Enrollment

Free Tutoring

STEM Focus

Small high school

Virtual Courses Available

Complete college coursework while in high school

Digital School

Honor Societies

Robotics Program

University Internships

Lectures with leading scholars & scientists

Partnership with FIU

Only university based public high school in Florida

Modern Library



No Textbooks

Science, Technology, Engineering, Mathematics (STEM)

Career Planning

Block Schedule



Interact with university faculty & students

Testimonials

We could not be more thrilled with the opportunity that MAST@FIU BBC has given our daughter. She is driven to succeed more than she ever was before. Her teachers are exceptional and care about the students. The level and quality of education, in my opinion, is better than any other school available to my daughter, public or private. The teachers interact with the students on an individual basis and cater to each student's needs.

Lisa Miller Schwartz, student's parent

Last year, I enrolled my child into the magnet program MAST@FIU BBC. This school is dedicated to the STEM principles: science, technology, engineering, and mathematics. This school has helped my child tremendously in improving her science and mathematics skills; as well as encouraging her to explore new technological advances in the world. My daughter currently maintains a 4.0 GPA and it's all thanks to the wonderful teachers and staff that help meet her educational needs.

Mrs. Faustin, student's parent

MAST@FIU BBC provides an innovative combination between technology and other resources that is far superior to that of other high schools, as it also provides a college environment which better prepares you for your college career in the future.

Saad, student



Students participating in first Formula electric car race in downtown Miami.

Frequently Asked Questions

How and when will I be notified of my acceptance into a Magnet school?

Acceptance notifications are e-mailed during the month of March and parents must confirm their child's enrollment with the school registrar within 14 days of receipt.

Will I automatically be registered at the Magnet School after I am accepted into the program?

No, parents must meet with the school's registrar to finalize the enrollment process once an acceptance notice has been received.

Is there a cost to attend a Magnet Program?

All costs associated with your child's enrollment in the school are covered by the school district.

Is transportation provided?

No, parents must provide or arrange transportation to and from school.

Can information be changed on the application once it is submitted?

No, all changes must be made prior to application submission. Information pertaining to residence address, telephone numbers and email addresses may be changed at the time of enrollment.

How does my child enroll in Advanced Placement (AP) or Dual Enrollment courses?

Students must demonstrate a 3.0 minimum GPA and passing scores on the PERT, ACT or SAT to enroll in university DE courses. Enrollment in AP courses is based on GPA, AP potential and test scores.

What happens if my child does not maintain the required academic or behavioral requirements after enrollment?

Student performance is monitored throughout the child's enrollment. Students who do not meet the required academic and behavioral requirements as outlined in the Magnet contract are dismissed from the program.

CIVIL RIGHTS COMPLIANCE

The Board will enforce its prohibition against discrimination/harassment based on sex, race, color, ethnic or national origin, religion, marital status, disability, age, political beliefs, sexual orientation, gender, gender identification, social and family background, linguistic preference, pregnancy, and any other basis prohibited by law. The Board shall maintain an educational and work environment free from all forms of discrimination/harassment, which includes Title IX of the Education Amendments of 1972. Please refer to <http://www.dadeschools.net/schoolboard/rules/> for more information.

Questions, complaints or requests for additional information regarding discrimination or harassment may be sent to: Executive Director, Civil Rights Compliance Office, 155 N.E. 15th Street, Suite 104E, Miami, Florida 33132, PH: 305-995-1580. Please visit <http://crc.dadeschools.net/contact.asp> for additional contact information. The District also provides equal access to its facilities to the Boy Scouts and other patriotic youth groups, as required by the Boy Scouts of America Equal Access Act.