



Marine Academy of Technology and Environmental Science



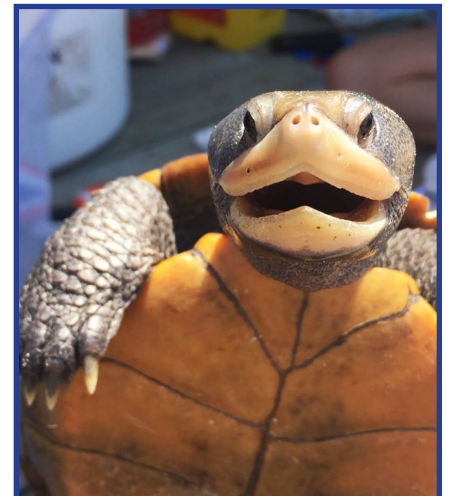


Note to students interested in attending the Marine Academy of Technology and Environmental Science

Academy applications are made available to students attending the academy admission information sessions only.

The academy admission information session is designed to help students and their families make informed decisions regarding an educational pathway that is in the best interest of each student.

The academy approach to learning is different from the traditional high school setting and the decision to apply should be made after review and discussion of the material presented during the information session.





APPLICATION PROCEDURES

1. You may apply to only one academy. You may attend as many information sessions as you like to help you decide which school is right for you.
2. Academy applications and admission materials can be accessed by attending one of the information sessions.
3. Complete the required application online. 7th grade final report card and 8th grade first marking period report card will be requested from your home school.
4. All applications **MUST** be submitted online by midnight on December 11, 2024.
5. Take the admissions test on **January 18, 2025**.

Acceptance Criteria

Applicants will be ranked using the following criteria:

- A) Academic grades 7th grade
 8th grade (first marking period)

- B) Admissions Exam



FREQUENTLY ASKED QUESTIONS

Q. What must be included with my application?

A. The application must be completely filled out. Grade transcripts compiled from 7th grade and the first marking period of 8th grade will be requested from the students' home school. The deadline for applications will be December 11, 2024. It is the applicant's responsibility to make sure that the application is submitted on or before the deadline. Late applications WILL NOT be accepted.

Q. How competitive is the admissions process?

A. In general, there will be more applicants than available space. We assign scores to all applicants based on academic records and performance on our entrance exam.

Q. What happens if I am not accepted?

A. If you are not accepted but you meet the minimum criteria, your application will remain on file. Should an opening occur, your application may be reconsidered.

Q. What is on the entrance exam?

A. The exam contains three sections: mathematics, science and language arts literacy. Questions are multiple-choice.

Q. What if I am sick and miss the exam?

A. A make-up date will be available for the exam, based on the circumstances of the individual.

Q. How and when will I be notified of acceptance?

A. It will take approximately four weeks for all processing to be completed after the audition date. All applicants who have completed the admissions process will be notified by mail whether they have been accepted or not.

Q. Can I apply to more than one Career Academy?

A. No, you may only apply to one school. The Career Academies offer very specialized curricula. The Career Academies admissions process attempts to match students to the most appropriate program for that student. One of the first steps in that process is for you to choose the school that most fulfills your interests and abilities.

Q. How will I make arrangements for transportation and other costs?

A. The Ocean County Vocational Technical School District is a public school district. If you have been accepted, your resident school district will be notified and transportation will be provided by that district. You can expect to incur the same kinds of costs that you would in your resident school. Notebooks, pens, pencils, etc. are your responsibility to provide.



INFORMATION FOR APPLICANTS

The Marine Academy of Technology and Environmental Science is a public high school administered by the Ocean County Vocational Technical School district. MATES is designed to give its students a rigorous academic curriculum with concentration in the areas of math, science, engineering and technology. The school exists within the community to provide a challenging, unique, hands-on learning experience for students interested in pursuing a math or science related career. The academy opened in September 2001 for students entering the ninth grade.

STUDENT SELECTION AND ADMISSION

Students are selected through a competitive application process and enter at the ninth grade level. Applicants must reside in Ocean County to be eligible for admission. All school districts in Ocean County are eligible to participate in sending applications to the program.

ADMISSION

To be eligible for admission the student should be enrolled in and successfully complete an eighth grade program that includes: English, math (Algebra I preferred), science, social studies and physical education. *A Spanish I elective is also recommended, or a summer program equivalency will be required.

NINTH GRADE COURSES OF STUDIES

Algebra I /Data Analysis	5 credits
Geometry	5 credits
English I	5 credits
Biology	5 credits
Chemistry I	5 credits
*Spanish II	5 credits
World History	5 credits
Physical Education/Health	5 credits
Independent Research Study	5 credits

TRANSPORTATION

The student's resident district will be responsible for transporting the student to MATES.

PROGRAM DESCRIPTION

The school day runs from 7:30AM until 1:43PM. Classes are offered in a block time similar to a typical college program. Each semester students receive a different schedule. The course of study meets and exceeds the New Jersey Student Learning standards.



Marine Academy of Technology and Environmental Science (MATES)

The mission of the Marine Academy of Technology and Environmental Science (MATES) is to provide an opportunity to students in Ocean County to become critical thinkers and problem solvers. Students of this academy will participate in an intimate, integrated, and challenging curriculum with a focus on marine and environmental science. MATES will empower its students with skills important to post-secondary study and employment in a global community.

BACKGROUND

The Marine Academy of Technology and Environmental Science is one of the career academies administered by the Ocean County Vocational Technical School District. Opened in September 2001, the school exists within the community to provide a unique, nurturing, and challenging hands-on learning experience for college bound and career-oriented students interested in pursuing a math or science-related field. MATES has been designed to give its students a rigorous academic curriculum with concentration in the areas of math, science, engineering and technology.

Located in Manahawkin, New Jersey, MATES is centrally located to the south of New York City, north of Atlantic City, and east of Philadelphia.

The Ocean County Vocational Technical School District is responsible for recruitment, admissions, and the instructional program. There are over 21,000 high school students enrolled in Ocean County Public Schools. MATES is a competitive, specialized high school that selects its students from applicants found within the public and private schools of Ocean County.

QUICK FACTS:

Type of School: Public

Grades Included: 9-12

Total Enrollment: 275 (as of September 2024)

CEEB Code: 311473



Marine Academy of Technology and Environmental Science

COURSE OF STUDY

All courses are instructed utilizing a block scheduling format ~ Classes are 80 minutes. All students are accepted via a competitive application process and follow the same rigorous course of study. Students must successfully complete 161.25 high school credits or their college equivalent to graduate. All high school courses are taught at an honors/advanced level.

FRESHMAN YEAR	CREDIT(S)	JUNIOR YEAR	CREDIT(S)
English I	5	English III	5
Algebra I/ Data Analysis	5	Pre-Calculus	5
Geometry	5	Biotechnology (BIOL 1200)	5
Chemistry I	5	Physics (PHYS 2110/2120)	5
Biology	5	*Fall Elective	5
Physical Education I/Health I	5	*Spring Elective	5
World History	5	US History I	5
Spanish II	5	Physical Education III/Health III	3.75
Independent Research Study*		Financial Literacy	2.5
*Part of science program requirement		TOTAL:	41.25
TOTAL:	40		

SOPHOMORE YEAR	CREDIT(S)	SENIOR YEAR	CREDIT(S)
English II	5	English IV (LIT1100/1110)	5
Intro to Computer Science	5	Calculus I (MATH 2215)	5
Algebra II/Trigonometry	5	US History II	5
Chemistry II	5	Oceanography (MARS 1300) or	
Aquatic Ecology or		Adv. Oceanographic Research (MARS 1300)	5
Research Method I/Field Ecology	5	Environmental Science (ENVL 1100) or	
Spanish III	5	Senior CS Capstone	5
Spanish IV (LANG 2142) or		Data Visualization with Python or	
Intro to Art (required or Option II Art)	5	Data Science	5
Health II/Driver's Education	1.25	*Elective	5
Physical Education II	3.75	Physical Education IV/ Health IV	5
TOTAL:	40	Total:	40

*Electives: Geographic Information Systems (GNM 1242); Geo/Astrophysics (GEOL 2120); Art History/Basic Drawing (GAH 2243/GAH 1261); Introduction to Art; Spanish IV (LANG 2142); Spanish V (LANG 2143); Anatomy & Physiology (BIOL 1260); Data Visualization with Python; BioStatistics (CIST 1206); Public Speaking (GEN 2105); Intro to Engineering Design; Principles of Engineering

ALL COURSES SUBJECT TO CHANGE.

MATES CLASS OF 2024 SAT RESULTS

Math: 711

Evidence Reading
& Writing: 669

State% (2024): 532

State% (2024): 538

National % (2024): 521

National % (2024): 529





Marine Academy of Technology and Environmental Science

Graduates of MATES have been offered acceptances to the following institutions:

- | | | |
|--|--|---|
| American University | Franklin and Marshall College | University of Pittsburgh |
| Boston College | The George Washington University | Princeton University |
| Boston University | Georgetown University | Purdue University |
| Brown University | Georgia Institute of Technology | Quinnipiac University |
| Bucknell University | Harvard University | Rensselaer Polytechnic University |
| University of California at Berkeley | University of Illinois at Urbana-Champaign | University of Rhode Island |
| Carnegie Mellon University | Johns Hopkins University | Rice University |
| Case Western Reserve University | The Julliard School | University of Richmond |
| The Catholic University of America | Lafayette College | Rider University |
| University of Chicago | Lehigh University | Rochester Institute of Technology |
| The Citadel, The Military College of
South Carolina | University of Maryland | University of Rochester |
| Clemson University | Massachusetts Institute of Technology | Rowan University |
| The College of New Jersey | University of Massachusetts | Rutgers University |
| The College of William & Mary | University of Miami | Seton Hall University |
| Columbia University | Monmouth University | Stanford University |
| University of Connecticut | Montclair State University | Stevens Institute of Technology |
| Cornell University | Muhlenberg University | Stockton University |
| University of Delaware | New Jersey Institute of Technology | SUNY College of Environmental Science
and Forestry |
| Dartmouth College | New York University | SUNY Maritime College |
| Drew University | University of North Carolina | Swarthmore College |
| Drexel University | North Carolina State University | Syracuse University |
| Duke University | Northeastern University | Temple University |
| Embry-Riddle University | Northwestern University | Texas A&M University |
| Emory University | University of Notre Dame | Tufts University |
| Florida Institute of Technology | The Ohio State University | United States Naval Academy |
| Florida State University | University of Pennsylvania | United States Air Force Academy
United States
Coast Guard Academy |
| Fordham University | Pennsylvania State University | The United States Military Academy at West Point |





Marine Academy of Technology and Environmental Science

MATES Calendar of Events (some examples of events and experiences in a given school year)

- September**
- Island Beach State Park Beach Plum Festival
 - Freshmen field experience week at Sedge Island, Barnegat Bay
- October**
- Fall Coffee House
 - PSAT/NMSOT
 - Clean Ocean Action Fall Beach Sweeps, Seaside Heights
 - Annual Student Summit at Island Beach State Park
 - Mole Day Activities (sophomores)
- November**
- Math League Competitions begin (competition schedule continues through Spring)
 - Robotics Team Competitions begin(competition schedule continues through Spring)
- January**
- After-School Educational Winter Outreach (students in grades 5-8) begins (January - March)
- December**
- Winter Semi-Formal
 - Jenkinson's Aquarium
- February**
- MATES Research Expo
 - Spring Coffee House
- March**
- Jersey Shore Science Fair
- April**
- New Jersey Academy of Science, Annual Meeting, Junior Academy Program
 - Environmental Educator's Roundtable - Lighthouse Camp, Waretown
 - Delaware Valley Science Fair
 - Terrapin Appreciation Week in Jenkinson's Aquarium + (other partners)
- May**
- Chemistry Olympics
 - Annual New Jersey Envirothon Competition
 - Junior/Senior Prom
 - National Honor Society Inductions
 - Ocean Fun Day - New Jersey Marine Sciences Consortium
- June**
- Hatchling Release @ Island Beach State Park
 - Marine Conservation Zone Day Island Beach State Park



Marine Academy of Technology and Environmental Science

STUDENT CLUBS AND ORGANIZATIONS

Birding/Environmental Club(BEAK)
Chemistry Olympics
Drama Club
Envirothon
Extra-Curricular Athletics Club
Fishing Club
Focus on the Drive
Games Club
Genders and Sexualities Alliance
Independent Research
Literary Magazine
Math League
Mock Trial
Model UN/Interact Club
National Honor Society
Project Terrapin
Robotics
Science Bowl
SkillsUSA
Spanish Club
Student Government
Yearbook

2023 - 2024 MATES HIGHLIGHTS

- 13 National Merit Commended Scholars
- 1 National Merit Semi-Finalist
- 1 International Science and Engineering Fair (ISEF) Finalist
- Rensselaer Polytechnic Institute Medalist - Class of 2024
- Jersey Shore Science Fair - 34 Award Winners
- Delaware Valley Science Fair - 18 Award Winners
- New Jersey Academy of Science - 5 Award Winners
- National Jr. Science & Humanities Symposium - 1 Award Winner
- NJ Southern Jr. Science & Humanities Symposium - 5 Award Winners
- American Junior Academy of Science - 4 Award Winners
- American Jr. Science & Humanities Symposium - 1 Award Winner
- Water Environment Association - Stockholm Water Prize, NJ State Winner
- Envirothon - 1st Place Team Overall and Category Wins in Aquatics, Soils, Forestry, Current Issues and Wildlife
- 36th Annual NJDEP Mapping Contest - 1 Award Winner



Marine Academy of Technology and Environmental Science

Ocean County Vocational Technical School District

Alison Carroll, Principal

John Wnek, Supervisor

Art

Melissa Hood

English

Mia Dill
Jennifer Hudak
Maryann Minnier

Health/Physical Education

Brian Coen
Melissa Galea

Mathematics

Michael Bixler
Michele Colon
Paul Fennimore
Gerald Luchs
Viktoriya D'Agostino

Science/Technology

Jason Kelsey
Adam Sprague
David Werner
John Wnek
Kelly Kelsey
Brian Jones
Amy Williams

Social Studies

William Hegerich
Christopher Holland

Spanish

Patty Pachas-Araya
Ruth Wolf

Guidance

Kate Beacham
Julia Giglio-Stork

School Nurse

Marissa Laffan

Administrative Secretary

Jackie Lamazza
Kathy Wixted

Custodians

Robert Carella
Dave Morgan
Gino DiGiovanni

IT Support

Jonathan Gery

Cafeteria

Francine Brookover

Board of County Commissioners

Commissioner Barbara Jo Crea Director
Commissioner Gary Quinn Deputy Director
Commissioner Virginia E. Haines Member/OCVTS Liaison
Commissioner John P. Kelly Member
Commissioner Frank Sadeghi Member

Board of Education

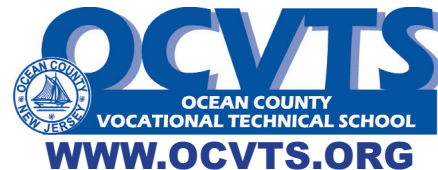
Stephen Scaturro President
Maureen C. Stankowitz Vice President
Michael Donahue Member
Susan R. Naples Interim Executive County Superintendent/Member
Ronald L. Rosetto Member

OCVTS Central Administration

Karen L. Homiek Superintendent
Dr. Michael B. Maschi Assistant Superintendent
Stephen J. Brennan, CPA Business Administrator

OCVTS Administration

John Biscardi Principal, Jackson
Alison Carroll Principal, MATES
Jeremy Dusza Principal, Adult Education
Gary MacDonald Director, Curriculum/Grants
Christopher Mazur Vice Principal, Toms River
Thomas McInerney Principal, Waretown/ALPS
Tierney Meeker Principal, GPAA
Melanie Patterson Principal, Student/Special Services
Christine Santasieri Principal, Toms River/LPN
Lynn Sauer Principal, Brick
Tiffany Seeley Vice Principal, Brick
Dr. Kyle Seiverd Vice Principal, GPAA
Dr. Michael Tash Principal, Technology
Dr. John Wnek Supervisor, MATES



The mission of Ocean County Vocational Technical School is to provide an intensive and immersive educational experience aligned with the current and emerging demands of business, industry, and advanced education. We instill the knowledge, skills, and competencies required for students to experience success in entering the workforce, advancing along a career pathway, and achieving career aspirations.

It is the policy of the Board of Education of Ocean County Vocational Technical School not to discriminate in its technical programs, vocational opportunities, activities, employment practices or admission policies and practices on the basis of race, color, creed, religion, sex, ancestry, national origin, affectional and sexual orientation, disability or social or economic status. Lack of English language skills will not be a deterrent to admission to any program at Ocean County Vocational Technical School.

Inquiries regarding affirmative action, discrimination (including Federal Title IX requirements), sexual harassment or equity should be directed to:
Dr. Michael Maschi, Title IX/Affirmative Action Office, 732.240.6414 (ext. 3318)
Melanie Patterson, Federal Section 504 Officer, 732.473.3100 (ext. 3123)
Melanie Patterson, Americans with Disabilities Officer, 732.473.3100 (ext. 3123)

We are an Equal Opportunity Employer and Educator who fully and actively supports equal access for all people regardless of race, color, religion, gender, age, national origin, veterans status, disability, genetic information or testing, family and medical leave, sexual orientation and gender identification and expression. We prohibit retaliation against individuals who bring forth any complaint, orally or in writing, to the employer or the government, or against any individuals who assist or practice in the investigation of any complaint, or otherwise oppose discrimination.