



MARINE ACADEMY OF TECHNOLOGY AND ENVIRONMENTAL SCIENCE

SCHOOL PROFILE 2026-2027

The Marine Academy of Technology and Environmental Science (MATES) is one of the career academies created by the Ocean County Vocational Technical School District. Opened in September 2001, the school exists to provide a unique, nurturing, and challenging learning environment for college-bound and career-oriented students interested primarily in the fields of math and science. The Ocean County Vocational Technical School District administers the high school and is responsible for recruitment, admissions, and the instructional program.

STUDENT BODY

MATES is a competitive, specialized high school that selects its 9th grade class each year from applicants found within the public and private schools of Ocean County. All students must apply and participate in a selective admissions process that considers middle school grades, standardized test scores, and an admissions test in English, Science, and Math. The students must successfully earn 161.5 high school credits or their college equivalent to graduate. Once enrolled, all students follow the most rigorous course of study offered at MATES.

EDUCATIONAL OPPORTUNITIES

Students have the opportunity to conduct outside research as well as structured learning experiences.

SCHOOL

- All Courses are instructed in a block format with 80-minute periods.
- Accreditation: Middle States Association and the National Consortium of Secondary STEM Schools (NCSSS)
- Enrollment is 286 as of September 2026: 301
Freshmen – 95
Sophomores – 67
Juniors – 66
Seniors – 73
- Staff: 27
- 67% of professional staff have one or more degrees.
- 7% have doctoral degrees.
- CEEB Testing Code: 311473

2025-2026 MATES HIGHLIGHTS

- 9 National Merit Commended Scholars
- Rensselaer Polytechnic Institute Medalist - Class of 2026
- Jersey Shore Science Fair - 39 Award Winners
- Delaware Valley Science Fair – 21 Category Award Winners and 14 Special Award Winners
- New Jersey Academy of Science -10 Award Winners
- American Junior Academy of Science – 8 NJ Delegates
- Scientific Publications – 2 students
- Envirothon – Teams placed 1st and 4th Overall; 1st Place Wins in the categories of Aquatics, Wildlife, and Current Issues and Forestry
- NCF Envirothon – Team placed 13th nationally
- NJ DEP Mapping Contest – 2 Award-Winning Projects
- SkillsUSA – 1st and 3rd Place Winners in NJ State Competition, 1 Qualifying Student for National Competition
- Mock Trial – Ocean County Champions, Southern Regional Champions, 3rd place in the NJ State Competition

GRADING SYSTEM

MATES does not distinguish the level of courses within the school. All courses are taught at the honors or college level. **Grades are not weighted. Class rank is not computed.** GPAs are calculated as follows: each final grade is multiplied by the number of credits for that course. These calculations are added together and divided by the total number of earned credits. Career Education is infused into all coursework.

GRADING SCALE

A+	95-100
A	90-94
B+	85-89
B	80-84
C+	75-79
C	70-74
D	66-69
F	0-65

ARTICULATION AGREEMENT

In conjunction with Stockton University, MATES provides students with the opportunity to earn college credits. Students will earn college credits during the course of their school day. The credits and grades earned through this collaborative program will appear on both their official high school transcript and an official college transcript.

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SCHOOL PROFILE 2026-2027

CLASS OF 2026

- Class size: 67
- 97% Attending four-year college
- Scholarship Offers: \$9 million
- Scholarships Accepted: \$1 million
- Highest GPA – 98.024
- Lowest GPA – 86.315

CLASS OF 2026 SAT RESULTS

- 100% of the Class of 2026 took the SAT
- Math: 692
State – 518
National – 545
- Evidence Based Reading and Writing: 679
State - 523
National – 559

CLUBS AND ACTIVITIES

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



MATES was recognized by the United States Department of Education as a 2012 Blue Ribbon School. This award is based on overall academic excellence.

MATES is an Institutional Member of the National Consortium of Secondary STEM Schools (NCSSS). NCSSS high schools are ranked as the best in the country and share the goals of transforming mathematics, science, and technology education.



MATES 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 level or college level.

FRESHMAN YEAR40 TOTAL CREDIT(S)

English I	5
Algebra I/Data Analysis	5
Geometry	5
Chemistry I*	5
Biology I*	5
PE/ Health I	5
World History	5
Spanish II	5
First Year Research Project *part of science course req	P/F

SOPHOMORE YEAR40 TOTAL CREDIT(S)

English II	5
Introduction to Computer Science	5
Algebra II/Trigonometry	5
Chemistry II	5
Aquatic Ecology or Research Methods/Field Ecology	5
Spanish III (SU LANG 1240)	5
Spanish IV (SU LANG 2142) or Introduction to Art	5
Health II/Driver's Education	1.25
PE II	3.75

JUNIOR YEAR41.25 TOTAL CREDIT(S)

English III	5
Pre-Calculus	5
Biotechnology (SU BIOL 1200/1205)	5
Physics (SU PHYS 2110)	5
US History I	5
Fall Elective - Geographic Information Systems (SU GNM 1242), Geo/Astrophysics (SU GEOL 2120), Biostatistics (SU CIST 1206), Art History (SU GAH 2243)/Basic Drawing (SU GAH 1261), Public Speaking (SU GEN 2105), or Introduction to Engineering Design	5
Spring Elective - Introduction to Art*, Spanish IV (SU LANG 2142), Spanish V (SU LANG 2143), Data Visualization with Python, Anatomy & Physiology (SU BIOL 1260), or 2D Art	5
PE III/Health III	3.75
Financial Literacy	2.5

*Option II V/PA available as a P/F course in fulfillment of NJDOE requirements

SENIOR YEAR40 TOTAL CREDIT(S)

English IV (SU LITT 1100/1110)	5
Calculus I (SU MATH 2215)	5
US History II	5
Oceanography (SU MARS 2202) or Advanced Oceanographic Research (SU MARS 2202)	5
Environmental Science (SU ENVL 1100), Advanced Environmental Science (SU ENVL 1100), or Computer Science Senior Capstone	5
Data Visualization with Python or Data Science	5
Elective - Geographic Information Systems (SU GNM 1242), Geo/Astrophysics (SU GEOL 2120), Biostatistics (SU CIST 1206), Art History (SU GAH 2243)/Basic Drawing (SU GAH 1261), Public Speaking (SU GEN 2105), Principles of Engineering, or 2D Art	5
PE/Health IV	5
Senior Experience: Research/SLE	P/F