



Marine Science Magnet High School

2023-2024 School Profile



130 Shennecossett Road

Groton, CT 06340
CEEB CODE: 070252

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Tara Amatrudo
Principal

Colleen Hardison
Assistant Principal

Jennifer Janssen
School Counselor

Jenna Mulvey
School Counselor

School and Community

MSMHS, established in 2011, is a 9-12, public magnet school operated by LEARN with 271 students who are accepted through an open, non-merit based, blind lottery that currently draws from 32 different middle schools. In 2022, MSMHS was awarded the CT State Department of Education School of Distinction Award for the Highest Overall Performance for a state record 6th time. MSMHS has ranked top in the state amongst all public high schools on state standardized exams: Science CAPT (1st in 2017) and SAT ELA (1st in 2018). MSMHS has been recognized by the Washington Post as the 2nd most challenging private or public high school in Connecticut and Newsweek ranked MSMHS as one of the top 500 high schools in the nation. In August 2016, MSMHS received full accreditation with the New England Association of Schools and Colleges (NEASC). MSMHS offers an extensive array of marine science themed programs and opportunities, as well as academically rigorous college preparatory opportunities that meet the needs of all students. Sophomore year, advanced levels of study are offered in Honors Algebra II, Honors English II, Honors Chemistry, ECE World Maritime History, and ECE Environmental Science. Junior year, students enroll in AP and UConn Early College Experience (ECE) courses. Students must take foundational science courses that prepare them for AP and ECE science courses offered junior and senior year. Students participate in CIAC athletic programs at their sending district's high school.

Core Values and Beliefs

Core Values: Environmental Stewardship, Growth, Equity, Community, and Responsibility.

We lead efforts to ensure the sustainability of our physical and social environment; we understand that both success and struggle are part of the learning process; we persist through challenges and seek feedback to support our growth; we advocate and actively work to ensure equitable opportunities and outcomes for every member of our diverse community; we take action and build relationships that strengthen our school, local, and global communities; and we are responsible and accountable to ourselves and one another for maintaining a respectful, productive, safe, and supportive learning environment.

We Believe: A growth mindset allows us to learn from our mistakes through feedback, support and new learning; strong relationships and a supportive school culture are foundational to successful teaching and learning; when we are accountable to the learning environment we engage deeply with our learning and one another; individual ownership of our growth motivates us to lead our own learning; responsive instruction meets the academic, social-emotional, and cultural needs of each individual in the learning community; and learning accelerates through relevant opportunities that build on personal interest and fuel creativity through wonder, curiosity, and inquiry.

Graduation Requirements: 25 Total Credits

English	4.0	Aquaculture	1.0
Social Studies	3.0	PE/Health	2.0
Mathematics	4.0	Senior Portfolio	1.0
Science	5.0	World Language	1.0
Marine Science	2.0	Arts/Electives	2.0

Class of 2023 Future Plan

90% (53 students) to Higher Education

- **71.2%** (42 students) to a Four-Year College
- **18.6%** (11 students) to a Two-Year College

10% (6 students) Other (Career education, gap year, employment, etc.)

MSMHS Highlights

- 2023 National Blue Ribbon School
- Named US News & World Report #1 Connecticut High School (2023)
- MSMHS offers 19 AP and ECE courses in: American Studies*, AP Art History, AP Biology, AP Calculus AB*, AP Calculus BC, AP Chemistry, AP Computer Science Principles, AP English Language*, AP English Literature*, Environmental Science*, Horticulture & Design*, Marine Science*, World Maritime History*, AP Microeconomics, AP Psychology, Sea Around Us*, AP Spanish Language*, AP Statistics, AP US History (*Denotes courses in which students are eligible to receive UConn credit)
- MSMHS received the DOE School of Distinction Award for Overall Performance in 2013, 2014, 2015, 2017, 2018, 2022.
- National Merit Scholarship Winner
- Named a US News & World Report Gold Medal High School
- 2022 & 2023 Best Magnet High School in CT

Marine Science Magnet High School

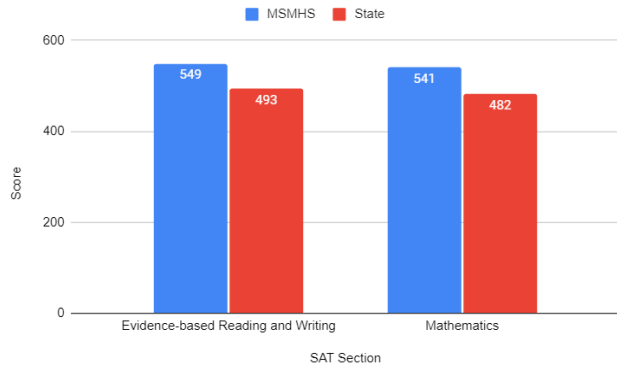
2023-2024 School Profile

Grade Point Average & Class Rank

Students are not ranked except for valedictorian and salutatorian. GPA is measured each semester and weighted according to the chart below:

Letter	Points	GPA	Honors	AP/ECE
A+	97-100	4.30	4.52	4.73
A	93-96	4.00	4.20	4.40
A-	90-92	3.70	3.89	4.07
B+	87-89	3.30	3.47	3.63
B	83-86	3.00	3.15	3.30
B-	80-82	2.70	2.84	2.97
C+	77-79	2.30	2.42	2.53
C	73-76	2.00	2.10	2.20
C-	70-72	1.70	1.79	1.87
D+	67-69	1.30	1.37	1.43
D	63-66	1.00	1.05	1.10
D-	62-60	0.70	0.74	0.77
F	50-59	0.00	0.00	0.00

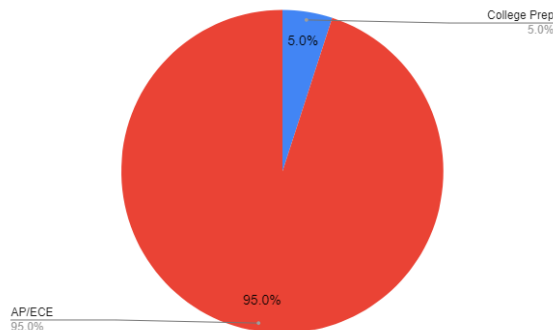
MSMHS Class of 2024 SAT School Day Scores (Spring 2023) to State Average



SAT Scores for MSMHS Class of 2024 per Spring 2023 SAT School Day Data

Evidenced-Based Reading and Writing	Mean: 549
Mathematics	Mean: 541
Total Scores over 1000	67.8%
Total Scores over 1200	30.4%
Total Scores over 1400	5.4%

Class of 2024 Students Taking AP/ECE Courses

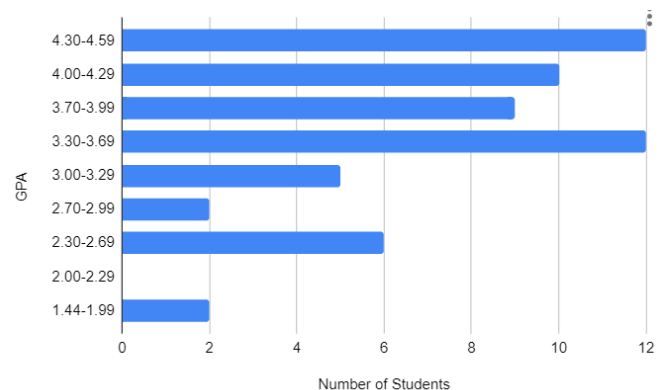


Class of 2023 Student AP Test Score Distribution

5	4	3	2	1
13	38	55	67	27

The Class of 2023 took a total of 200 AP exams in 15 AP subjects. Moreover, 53% of student scores were 3 or higher. All AP students are required to take the AP Exam.

Class of 2023 Weighted Cumulative GPA through Junior Year



Total Students: 58 Highest GPA: 4.59