



# MARINE SCIENCE MAGNET HIGH SCHOOL (MSMHS)

## 2015-2016 School Profile

130 Shennecossett Road Groton, CT 06340 860.446.9380 (fax) 860.446.9381  
 CEEB CODE: 070252 www.msmhs.com

**Dr. Eileen S. Howley**  
*Executive Director*

**Dr. Nicholas J. Spera**  
*Principal*

**Jessyca Campbell**  
*Dean of Students*

**Christopher Contos**  
*School Counselor*

**Moheba Sayed**  
*School Counselor*

### School and Community

MSMHS, established in September 2011, is a public magnet school with grades 9-12. Students are accepted through an open, non-merit based lottery that currently draws from 32 different middle schools. As of Fall 2014, MSMHS reached full capacity with 271 students in grades 9-12. In 2013 and 2014, MSMHS was awarded the State Department of Education School of Distinction Award for the Highest Overall Performance. Recognized as a US News World & Report Bronze Medal High School, MSMHS ranked 2nd amongst all Connecticut High School on both state standardized tests: Science CAPT and the English Language SBAC test in 2015. Moreover, in August 2013, MSMHS was unanimously voted into candidacy status for 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. All freshmen are heterogeneously placed in college-prep courses. Sophomore year, honors level of study are only offered in Algebra II, Integrated Science II, and English II. Junior year, students are able to enroll in Advanced Placement and UConn Early College Experience (ECE) courses. Students are required to take foundational science courses that prepare them for AP and ECE science courses offered junior and senior year. Being a small magnet high school, students are allowed to participate in an inter-scholastic athletic program at their sending district's high school.

### Core Values, Beliefs and Learning Expectations

MSMHS is a safe, respectful and nurturing environment. Our professional learning community is committed to 21st century instruction that promotes effort and ensures academic rigor through a challenging curriculum responsive to the diverse interest of a broad spectrum of students. Furthermore, MSMHS collaborates with all stakeholders to prepare students for higher education and/or marine-related employment by supporting the personal, academic, and career goals of every student. We believe that effort creates ability and that all students will succeed. We provide students with the opportunities to develop the skills and character needed to be active responsible citizens in a global community.

### MSMHS Highlights

- 99% of all MSMHS graduates have gone on to a two/four year college/university. 73% - four-year, 26% - two-year
- MSMHS will offer 15 AP and ECE courses in: AP Biology\*, AP Chemistry, AP Calculus, AP US History\*, AP Human Geography, AP Environmental Science\*, AP Psychology, AP English Literature\*, AP English Language\*, AP Statistics\*, Spanish\*, American Studies\*, Marine Science\*, Horticulture & Design\*, and Maritime History\* (\* denotes UConn ECE credit course)
- MSMHS received the School of Distinction Award for Overall Performance in 2013 and 2014
- Dr. Nicholas J. Spera received the 2015 UConn ECE Principal of the Year Award and the 2012-2013 William Cielukowski Outstanding First-Year Principal of the Year Award from the Connecticut Association of Schools
- MSMHS received candidacy status from NEASC in Aug. 2013
- ConnCan ranked MSMHS #1 high school in CT with a grade of an 'A' for overall performance
- Named a US News World & Report Bronze Medal High School

### Graduation Requirements

English	4.0	Aquaculture	1.0
Social Studies	3.0	PE/Health	1.5
Mathematics	3.0	Portfolio	1.0
Science	5.0	<u>Electives</u>	<u>3.5</u>
Marine Studies	3.0	Total	25.0

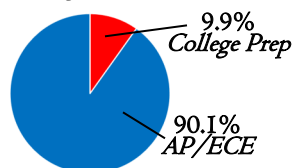
Students must meet academic, civic and social competency requirements through successful completion of a capstone portfolio.

### Grade Point Average/Class Rank

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

Letter	Points	GPA	Honors	AP/ECE
A+	97-100	4.3	4.52	4.73
A	93-96	4.0	4.20	4.40
A-	90-92	3.7	3.89	4.07
B+	87-89	3.3	3.47	3.63
B	83-86	3.0	3.15	3.30
B-	80-82	2.7	2.84	2.97
C+	77-79	2.3	2.42	2.53
C	73-76	2.0	2.10	2.20
C-	70-72	1.7	1.79	1.87
D	65-69	1.0	1.05	1.1
F	Below 65	0.0	0.0	0.0

### Class of 2016 Students Taking ECE/AP Courses



### 2015 AP Test Score Distribution

*Biology, Calculus AB, Chemistry, English Literature, Environmental Science, Human Geography, US History*

I	2	3	4	5
13	38	46	27	11

AP courses are available to juniors and seniors. In 2015, 67 students took a total of 135 AP exams in 7 AP subjects. Moreover, 62.2% percent of scores were 3 or higher. All AP students are required to take AP exams..

### State & National AP Mean Score Comparison

	Eng Lit	Hum Geo	US Hist	Calc AB	Biol	Chem	Env Sci	Total
MSMHS 2014	3.27	4.33	4.25	3.00	3.25	3.67	3.60	3.71
MSMHS 2015	2.66	3.94	3.54	3.25	2.48	2.13	3.08	2.89
United States	2.78	2.68	2.63	2.83	2.90	2.62	2.58	2.82

### CAPT State Rankings

Year	Overall	%	Class of 2015 SAT			
			Overall	Read	Math	Writing
2015	2nd	75%	1760	600	620	600
2014	10th	50%	1560	550	530	520
2013	10th	25%	1340	430	430	420
2012	1st					

### Class 2016 Weighted Cumulative GPA

Total # Students: 71, Highest GPA: 4.41

