



Massachusetts Academy of Math and Science

A public high school at a prestigious university

WHO WE ARE

Massachusetts Academy of Math and Science (Mass Academy) is a public high school of excellence for 100 academically accelerated Massachusetts juniors and seniors. It was established in 1992 by the State Legislature to provide an enriching educational opportunity that emphasizes math and science in a comprehensive and interactive academic environment.

The rigor of the junior year curriculum exceeds that of traditional Honors and Advanced Placement courses and involves more than 1,100 hours of academic instruction. For senior year, students are enrolled in classes at Worcester Polytechnic Institute (WPI), a premiere technological university, which makes Mass Academy the only public school in Massachusetts where students attend a private university full-time while they are seniors in high school.

CONTACT US

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CEEB CODE: 222504

Accreditation: NEASC

ADMISSIONS

Mass Academy is highly selective in its admissions process, accepting approximately 50 students to the junior class each year from a pool of more than 150 applicants from as many as 119 different communities. Successful candidates are typically sophomores ranked in the top 10% of their class in public and private schools throughout Massachusetts. The average male/female ratio of accepted students has been 60/40 over the past several years and reached gender parity for the current school year.

JUNIOR YEAR ACADEMICS

The junior year focuses on authentic and project-based learning experiences in mostly collaborative, but also independent, settings. Every junior takes Mathematical Modeling, Physics, Humanities (English and History), Computer Science, World Language (French or Spanish), Science and Technical Writing, STEM I and II, and Physical Education.

Mass Academy juniors receive a final letter grade of A, B, C, or D for each course. Because our students are admitted into grade eleven from widely varying high schools, we do not report individual GPA or class rank. The cumulative GPA for juniors is 3.58, based on data from the past five years.

SENIOR YEAR ACADEMICS

Seniors enroll as full-time students at Worcester Polytechnic Institute, where they must successfully complete three WPI courses in each of four seven-week terms, for a total of 12 courses. In every term, students are required to take one course in each of three major academic areas: Mathematics, Science, and Humanities. Seniors also complete a 100-hour Independent Study Project (e.g. learning American Sign Language, aircraft flight training, research at university and medical labs, etc.).

Mass Academy seniors attend classes along with WPI students and earn university credit. They receive letter grades of A, B, C, or NR (no record), along with an official WPI transcript. The cumulative GPA for seniors in WPI courses is 3.68, based on data from the past five years.

COMMUNITY SERVICE & EXTRACURRICULARS

All students perform a minimum of 100 hours of Community Service over their two years at the Academy. Examples include Habitat for Humanity, the e-NABLE Project, the Seven Hills Foundation, assisting at food pantries and nursing homes, and teaching at local schools. Over the past five years our students have contributed over 25,000 hours of service to their communities.

All students participate in Extracurricular Activities. Extracurriculars at Mass Academy include FIRST Robotics, Mock Trial, CyberPatriot, BioTech, Photography, Yoga, and others. Students may also participate in the music program at WPI or in athletics at their former schools.

Unless stated otherwise, all totals and averages are over the past five years, including the classes of 2013 through 2017, for a total of 247 students.

COLLEGE ACCEPTANCES

The totals listed below are a representative sample of the college acceptances over the past five years.

Boston College	11	Olin College	6
Boston University	34	Princeton University	3
Brandeis University	10	Rensselaer Polytechnic Institute	35
Brown University	10	Rochester Institute of Technology	18
California Institute of Technology	3	Tufts University	7
Carnegie Mellon University	13	University of California (all)	13
Case Western Reserve University	11	University of Chicago	3
College of the Holy Cross	13	University of Connecticut	27
Columbia University	6	University of Illinois	8
Cornell University	18	University of Massachusetts (Amherst)	120
Dartmouth College	3	Duke University	6
Drexel University	13	University of North Carolina-Chapel Hill	5
Georgetown University	3	University of Pennsylvania	3
Georgia Institute of Technology	12	University of Vermont	13
Harvard College	1	Washington University at St. Louis	2
Harvey Mudd College	2	Wellesley College	6
Massachusetts Institute of Technology	11	Williams College	4
Mount Holyoke College	4	Johns Hopkins University	7
New York University	9	Worcester Polytechnic Institute	150
Northeastern University	88	Yale University	1

STEM AWARDS

A limit of 12 projects is allowed per school per year at the Regional Fair, which is the gateway to State and International (ISEF) Fairs. The following list includes 1st, 2nd, 3rd, and 4th place awards, but does not include honorable mentions or other special awards (e.g. patent awards).

Over the past five years, Mass Academy has sent 60 participants (the maximum allowed) to the Regional Fair, where 92% received awards. Of those who qualified for the State Fair, 82% earned awards. Mass Academy also sent 16 participants to the Intel International Science and Engineering Fair (Intel ISEF), of which 75% achieved awards. In addition 5 of our students were Semifinalists in the Intel Science Talent Search (Intel STS), with 2 Finalists, of which one received a Top Award.

STANDARDIZED TEST SCORES

PSAT/NMSQT

Note: PSAT scoring changed in October of 2015. The old scores were based on a maximum of 80 points, and the new scores, denoted with an asterisk, are based on a maximum of 760 points.

Test-takers	247 (100%)
Avg Reading	65.2, 681*
Avg Math	70.6, 726*

National Merit Scholarship Program

Letters of Commendation	96 (39%)
Semifinalists	28 (11%)
Finalists (Scholars)	19 (8%)
Total Recognitions and Awards	124 (50%)

SAT

Test-takers	233 (94%)
Avg Reading Score	693
Avg Math Score	744

SAT Subject Tests

Math 2: Test-takers 216 (87%)	Avg Score 756
Physics: Test-takers 211 (85%)	Avg Score 737

ACT

Test-takers	112 (45%)
Avg Composite Score	31.9
Avg Reading Score	31.2
Avg Math Score	32.8

AP

Our courses meet or exceed the requirements of most AP curriculums. Although our courses do not teach to those tests, many of our students are prepared to take the tests and perform very well on them. The most commonly taken AP tests are Calculus AB and BC, Physics 1, Physics C Mechanics and E&M. The following data represent AP tests taken by Academy students over the past three years (N = 150).

Test-takers	65 (44%)
Total Tests	126
Avg Score	4.26
Earned ≥ 3	96%

NOTICE OF NONDISCRIMINATORY POLICY AS TO STUDENTS

It is the policy of the Massachusetts Academy of Mathematics and Science that each qualified individual, regardless of race, color, sex, gender identity, religion, sexual orientation, national origin, age as defined by law, or handicap, shall have equal opportunity in education and services of the Massachusetts Academy of Mathematics and Science.