Massachusetts Academy of Math and Science

A public school at a prestigious university

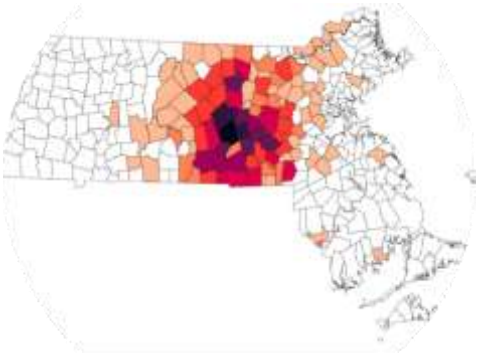
WHO WE ARE

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 premier science and engineering 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.

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 180 applicants from more than 50 communities. Successful candidates are typically sophomores ranked in the top 10% of their class in public and private schools throughout Massachusetts.



Graphical representation of Massachusetts communities sending students to Mass Academy over the last 30 years. Darker colors indicate higher numbers of students.

JUNIOR YEAR ACADEMICS

The junior year focuses on authentic and project-based learning experiences in both collaborative and independent settings. Every junior takes advanced courses in Mathematical Modeling, Physics, Humanities (which combines English and History), Computer Science, Foreign Language (French or Spanish), STEM with Science and Technical Writing, as well as Physical Education. Students prepare and present six major projects during the year in the following areas: math modeling (HiMCM and Modeling the Future Challenge), individual research (STEM Fair), group engineering/assistive technology (Design Review), foreign language film in the target language (Film Festival), and computer Apps For Good (App Fair).

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 3.72, 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 (past examples include learning American Sign Language, aircraft flight training, and participating in research at university and medical labs).

Mass Academy seniors attend classes along with WPI students and earn WPI 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 3.89, based on data from the past five years.

CONTACT US

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COMMUNITY SERVICE & EXTRACURRICULARS

All students perform a minimum of 100 hours of community service over their two years at Mass Academy. Examples include volunteering for Habitat for Humanity, Worcester Refugee Assistance Project, and Seven Hills Foundation; assisting at food pantries and nursing homes; tutoring emerging multilingual learners; and teaching at local schools. Over the past five years, our students have contributed over 28,000 hours of service to their communities.

All students participate in a variety of extracurricular activities such as FIRST Robotics, Math Team, CyberPatriot, BioTech, Cooking, Physics Club, Brickyard Beat (school's e-newspaper), Creative Engineering and Design, CAD, Programming Team, and more.

Students may also participate in the music program at WPI or in athletics at their sending schools.

STATE, NATIONAL, AND INTERNATIONAL ACHIEVEMENTS AND AWARDS

Mass Academy annually fulfills its maximum allotment of projects each school year at the Worcester Regional STEM Fair, which is the gateway to Massachusetts State and International (ISEF) Fairs. Annually, this represents approximately 25% of all Mass Academy student projects. In addition, over the last five years, Mass Academy students have regularly represented the school and the commonwealth at regional, state, and national competitions and conferences, including ISEF, JSHS, AJAS, NCSSS Research Conferences, CyberPatriot, Regeneron STS, HiMCM, MAA American Math Competitions, the Modeling the Future Challenge, and the New England Math League. Several individual students and student teams have earned patent awards and have patents pending for their projects.

- The senior Class of 2026 (of 49 students) produced 7 National Merit semi-finalists and 23 National Merit commended students, representing 61% of the graduating class.
- Mass Academy seniors attend classes full time at Worcester Polytechnic Institute. The average GPA at WPI for the Class of 2026 is 3.89.
- Our students contributed over 6,100 hours of community service this year to schools, organizations, and individuals in need.
- Three students were selected to participate in the 2025 Massachusetts Junior Academy of Science (MJAS) Conference held in October at MIT. Three students were selected to represent Massachusetts as delegates at the national meeting of the American Junior Academy of Science (associated with AAAS) in Phoenix, Arizona in February 2026.
- One Mass Academy student earned a bronze medal in the United States Physics Olympiad.
- One student was selected as the winner of the 2025 Congressional App Challenge from Massachusetts' Second Congressional District by Congressman James McGovern. The student traveled to Washington, D.C. to present their project at a public showcase.
- In the 2026 Massachusetts State Science and Engineering Fair (MSEF), Mass Academy students earned five second place, one third place, and two honorable mention awards, as well as three special awards.
- Mass Academy had 32 students participate in the ACSL Finals across both the Classroom and Senior divisions. Two students earned a gold award, six students earned a silver award and three students earned a bronze award.
- Ten Mass Academy teams competed in The Actuarial Foundation's Modeling the Future Challenge. All ten Mass Academy teams were selected as semi-finalists, from 267 submissions. Two teams were selected as finalists.
- Thirteen Mass Academy teams competed in the High School Mathematical Contest in Modeling (HiMCM). A total of 1091 teams, representing 498 schools and 24 countries/regions competed. One Mass Academy team qualified for the 5-day International Math Modeling Challenge.
- Two Mass Academy students earned recognition from the National Center for Women and Information Technology (NCWIT) with Aspirations in Computing Awards. Award recipients were selected from more than 3,300 applicants from across the United States.

COLLEGE ACCEPTANCES

The colleges listed below are the acceptances for the classes of 2022 through 2026

Amherst College
Barnard College
Boston College
Boston University
Brandeis University
Brown University
Brigham Young University
Bucknell University
California Institute of Technology
Carleton College
Carnegie Mellon University
Case Western Reserve University
Clark University
Clemson University
Colgate University
Colorado School of Mines
College of the Holy Cross
Columbia University
Cooper-Union
Cornell University
Dartmouth College
Drexel University
Duke University
Emory University
Florida Institute of Technology
Fordham University
George Washington University
Georgetown University
Georgia Institute of Technology
Harvard University
Harvey Mudd College
Imperial College of London
Johns Hopkins University
Lafayette College
Massachusetts College of Pharmacy and Health Sciences
Massachusetts Institute of Technology
McGill University
Miami University of Ohio
Mount Holyoke College
New York University
Northeastern University
Northwestern University
Ohio State University
Olin College
Oxford University
Penn State University
Princeton University
Purdue University
Rensselaer Polytechnic Institute
Rice University
Rochester Institute of Technology
Rollins College
Rutgers University
Smith College
Stanford University
Stevens Institute of Technology
Stony Brook University
Swarthmore College
Syracuse University
Texas A&M University
Tufts University
Tulane University
Union College
University of Arizona
University of California, Berkeley
University of California, Davis
University of California, Irvine
University of California, Los Angeles
University of California, San Diego
University of Chicago
University of Colorado Boulder
University of Connecticut
University of Florida
University of Illinois at Urbana-Champaign
University of Maryland
University of Massachusetts Amherst
University of Massachusetts Boston
University of Massachusetts Dartmouth
University of Massachusetts Lowell
University of Michigan
University of New Hampshire University
of North Carolina at Chapel Hil
University of Notre Dame
University of Pennsylvania
University of Pittsburgh
University of Rhode Island
University of Rochester
University of Southern California
University of Texas at Austin
University of Toronto
University of Utah
University of Vermont
University of Virginia
University of Washington Seattle
University of Wisconsin-Madison
Vanderbilt University
Vassar College
Villanova University
Virginia Polytechnic Institute
Wake Forest University
Washington University in St. Louis
Wellesley College
Wentworth Institute of Technology
Williams College
Worcester Polytechnic Institute
Yale University

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