

8430 Woodbury Crossing

Woodbury, MN 55125

# Math & Science Academy

## School Profile 2016-2017

Email: [www.mnmsa.org](http://www.mnmsa.org)

Phone: (651) 578-7507

### School Day:

- 7 class periods as well as a block schedule on Thursdays and Fridays (including a study hall).
- 9:20 a.m.- 3:50 p.m.

### Grades Served:

- 6th-12th grade
- A total of approximately 520 students

### Average Class Size:

- 20-25 students

### Staff:

- Approximately 50 staff
- Unlike many other public schools, MSA teachers are able to implement a program that they can control and for which they are accountable.

### Admissions:

- MSA is a public school. It is open to any Minnesota student as a free public education. Registration is required.
- An application must be completed and submitted online for all prospective students in order to be considered.
- Once the open application period begins, you can apply online.
- MSA has waiting lists for most grades.

### Graduation Requirements:

- ❖ English → 4 Years
- ❖ Social Studies → 4 Years
- ❖ Math → Sequence through Calculus I
- ❖ Science → Biology, Chemistry & Physics
- ❖ Spanish → 3 years of High School Spanish
- ❖ Fine Arts → 1 Year (2 semesters)
- ❖ Physical Education → Health & P.E. (1 semester each)

### Why does MSA require Spanish?

- Because Spanish is the second most prevalent language used in the United States, we have chosen to emphasize its study. We want our students to become proficient in the use of this language.



### ABOUT US:

The Math and Science Academy (MSA) is an innovative Charter School that is located in the City Center neighborhood of Woodbury, Minnesota. MSA is a tuition-free public school. It has a tradition of offering intense math and science experiences with the added distinction of providing creative and challenging opportunities in arts and humanities.

Students are held to high standards in their academic work and their behavior, and they are expected to self-advocate to achieve these expectations. The students are expected to act responsibly towards their classmates, their teachers, the school staff, MSA family members, and themselves. Our small school and small class sizes foster meaningful interaction among faculty, students, staff, and parents while promoting an atmosphere of self-advocacy, accountability, respect, and responsibility.

### Average ACT Score from 2015-2016 Students:

Composite Score → 28.5

### Advanced Placement Scores:

123 students took an AP course in the 2015-2016 school year.  
Percent of Students with a score of 3 or higher on test: 84.55%  
Average Score received → 3.61

### Average PSAT/NMSQT Score from 2015-2016 Students:

Average Score received (10th grade) → 1133  
Average Score received (11th grade) → 1210

### Executive Director:

John Gawarecki

### Assistant Director:

Romelle Pornschloegl

### Grading:

- ❖ 4.0 Scale
- ❖ Grades are not weighted

### Advanced Placement Courses:

- ❖ AP Literature and Composition
- ❖ AP Calculus I AB & II BC
- ❖ AP Physics
- ❖ AP U.S. History
- ❖ AP Human Geography
- ❖ AP Studio Art
- ❖ AP Biology
- ❖ AP Spanish Language and Culture
- ❖ AP Psychology
- ❖ AP Statistics

### PSEO:

- ❖ Qualified sophomores, juniors and seniors may attend eligible Minnesota post-secondary institutions with tuition, fees and textbooks paid. Credits earned will be applied toward MSA graduation requirements and may be accepted as college credits.

### Extracurricular Activities:

*Twin Cities Athletic Conference  
Minnesota State High School League*

- |                          |                                |
|--------------------------|--------------------------------|
| • Academic Triathlon     | • Lego Robotics                |
| • National Honor Society | • Link Crew                    |
| • Battle of the Books    | • Jazz                         |
| • African Club           | • Madrigal Choir               |
| • Asian Club             | • Math Team                    |
| • Girls Badminton        | • Nordic Skiing                |
| • Girl's Volleyball      | • Newspaper Club (Slice of Pi) |
| • Biology Club           | • Orchestra                    |
| • Boy's Basketball       | • Puzzle Club                  |
| • Boy's Volleyball       | • Cross Country                |
| • Chess Club             | • Science Bowl                 |
| • Choir                  | • Social Justice Club          |
| • Computer Club          | • Spanish Club                 |
| • Community Service Club | • Speech                       |
| • Cross Country          | • Student Council              |
| • Debate                 | • Symphony Orchestra           |
| • FIRST Robotics         | • Track & Field                |
| • GSA                    | • Geography Bee                |
| • Yearbook Club          | • Clay Targets                 |
| • Indian Club            | • Earth Club                   |
| • Theatre or Drama       | • Strength and Conditioning    |
| • Dumbledore Army        |                                |

**MSA Course Requirements and Typical Progression**

**English:** MSA requires 7 years of English and a typical progression looks like this:

- English 6 (Grade 6)
- Study Skills (Grade 6)
- English 7 (Grade 7)
- English 8 (Grade 8)
- Literature and Composition (Grade 9)
- Study Skills
- British and World Literature (Grade 10)
- For 11th and 12th grade, students may choose 2 of the following:
  - American Literature
  - AP Literature and Composition
  - Composition of Real Life (1 semester) &
  - Research Writing (1 semester)

**Fine Arts:**

- Art 6 (Grade 6)
- World of Music/Drumming (Grade 6)
- Art 8 (Grade 8)
- 1 year (2 semesters of Fine Arts)

Some options include:

- Wind Ensemble, Choir, Drawing, Painting, Digital Photography and Visual Communications I & II, Sculpture and Craft, Ceramics and Ap Studio Art

**Math:** MSA requires a sequence to complete Calculus I. A typical progression looks like this:

- Pre-Algebra
- Algebra I with Geometry
- Algebra II with Geometry and Trigonometry
- Algebra III with Geometry and Trigonometry
- Pre-Calculus
- For Calculus students may choose from:
  - Calculus I
  - AP Calculus I AB
  - AP Calculus II BC

**Spanish:** MSA requires 6 years of Spanish and a typical progression looks like this:

- Spanish 6 (Grade 6)
- Spanish 7 (Grade 7)
- Basic Spanish (Grade 7-12)
- Spanish I (Grade 8)
- Spanish II (Grade 9)
- Spanish III (Grade 10)
- Spanish IV- Spanish Literature and Conversation (Grade 11) or
- AP Spanish Language and Culture (Grade 11)

**Science:** MSA requires 6 years of Science and a typical progression looks like this:

- Life Science (Grade 6)
- Earth Science (Grade 7)
- Physical Science (Grade 8)
- Biology or AP Biology (Grade 9)
- Chemistry (Grade 10)
- General Physics (Grade 11/12)
- AP Physics (Grade 11-12)

**Health and Physical Education:**

- PE (Grade 6)
- Health 7 (Grade 7)
- PE 7 (Grade 7)
- PE 8 (Grade 8)
- Health (Grade 9)
- PE (Grade 9)

**Social Studies:** MSA requires 6 years of Social Studies and a typical progression looks like this:

- Minnesota History (Grade 6)
- US Studies (Grade 7)
- Global Studies (Grade 8)
- Ancient World History (Grade 9)
- Modern World History (Grade 10)
- American History or AP US History (Grade 11-12)
- Political Science (1 semester) (Grade 11-12)
- Economics (1 semester) (Grade 11-12)

★ The grade level listed behind courses are often what is "typical". In most cases, the course progression is determined by student readiness and the best "fit" in a student's schedule.

**Some of the colleges the 2016 graduates of MSA will be attending:**

Metropolitan State University  
University of Minnesota-Twin Cities  
Hamline University  
The University of Alabama- Huntsville  
University of Minnesota-Duluth  
Missouri State University

Century College  
University of St. Thomas  
North Dakota State University  
Minnesota State University-Mankato  
Webb Institute  
Dunwoody College of Technology

University of Wisconsin-Stout  
University of Scranton  
University of Northern Iowa  
Iowa State University  
Drake  
Bemidji State University