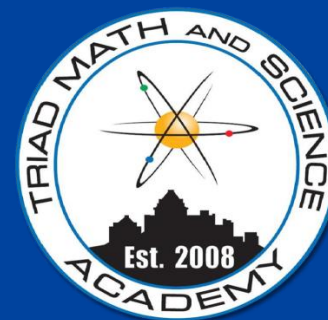




Triad Math & Science Academy 2020-2021 School Profile



Overview

Offering an enriching college-preparatory curriculum with a strong emphasis in math and science, Triad Math and Science Academy graduates students equipped with a strong core knowledge and higher-order skills. TMSA utilizes a variety of active-learning approaches through the use of technology courses, [Project Lead the Way \(PLTW\)](#) courses, Pre-AP courses, online courses, dual enrollment options, and internships.

Background

TMSA opened in the fall of 2008, and graduated its first senior class in the spring of 2014. We currently have 1,309 students enrolled K-12th, including 115 students in 9th grade, 90 students in 10th grade, 72 students in 11th grade, and 69 Students in 12th grade. The academic program is organized in year-long courses with high school students enrolled in 6 courses per year. TMSA is classified as a [Title I](#) high school.

Student Organizations and Team Sports

TMSA offers a variety of team sports, including soccer, softball, baseball, basketball, and track and field. These teams compete with other schools in the area.

Other sports will be considered as the school grows.

High school students are offered the opportunity to join student organizations such as NHS, Band Club, and HOSA.

Students are provided multiple opportunities to compete in national competitions in a number of subject areas. Academic teams include Model UN, Vex Robotics, FTC Robotics, and CyberPatriot. The number of academic teams will grow as our school grows. *Please note: Due to the COVID-19 Pandemic, all team sports, clubs, and organizations have been temporarily suspended.*

Memberships

National Association of College Admission Counseling (NACAC)
Southern Association for College Admission Counseling (SACAC)

Demographics (Title I)

Asian Students: 6.06%
Black or African American: 52.60%
Native Hawaiian or Pacific Islander: 0.28%
White: 12.42%
Hispanic or Latino: 23.69%
Multiracial: 4.91%
Total High School Enrollment: 346



Triad Math and Science Academy High School

www.tmsacharter.org

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Phone: (336) 621-0061
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CEEB Code: 341613

High School Administration

Dr. Paul Bryant
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High School Principal

Azem Kaplan
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High School Dean

College Counseling Department

Yasmine Bell
ybell@tmsacharter.org
College Counselor (8-10)

Luke Saunders
lsaunders@tmsacharter.org
College Counselor (11-12)



TMSA Graduation Requirements - 24 Credits

| | |
|--|---|
| Mathematics | 4 credits (Math I, II, III and 4th Math Course to be aligned with student's high school plans) |
| Science | 3 credits (Biology, a physical science course and Environmental Science) |
| English | 4 credits (English I, II,III,IV) |
| Social Studies | <p>For students who entered 2014-2015 through 2019-2020: 4 credits (World History, Civic/Econ., and U.S. History I and II or AP US History and an additional social studies course)</p> <p>For students who began high school in 2020-2021: 4 credits (a Founding Principles course, a U.S. History course, World History and Economics & Personal Finance)</p> |
| World Languages | 2 credits (including one course beyond the first year; 3 recommended) |
| Healthful Living 1 | 1 credit |
| Electives | 4 credits (1 credit in Technology required; 2 recommended) |
| <p>Environmental Science or Earth Science is a state requirement. Healthful Living is a state requirement. Students will have the option of participating in the North Carolina Virtual Public School to fulfill elective requirements with courses not offered at TMSA, upon administrative approval. It is recommended that students take a mathematics credit in the twelfth grade. Also, as a college preparatory high school, students are encouraged to earn academic credits beyond the minimum requirements to be the best prepared for higher education. Additional information can be found here .</p> | |

Grading System: Quality Points By Course

| | AP/Dual | Honors | Standard |
|----------------|----------------|--------|----------|
| A (90-100) | 5.0 | 4.5 | 4.0 |
| B (80-89) | 4.0 | 3.5 | 3.0 |
| C (70-79) | 3.0 | 2.5 | 2.0 |
| D (60-69) | 2.0 | 1.5 | 1.0 |
| F (0-59) | 0.0 | 0.0 | 0.0 |
| W - Withdrawal | I - Incomplete | | |

Honor Graduate Distinctions

Summa cum laude: 3.75-4.00

Magna cum laude: 3.50-3.74

Cum laude: 3.00-3.49



Curriculum Guide 2020-2021

Triad Math and Science Academy offers a rich program of study in humanities, mathematics, sciences, languages, and the arts. Academic offerings follow the North Carolina Standard Course of Study, which focuses on math and science, English and history, and modern languages. These courses are complemented by electives in these areas and others. Many courses are offered at Honors, Pre-AP, Advanced-Placement/PLTW, or College (Dual Enrollment Courses from NCA&T and GTCC) levels. Courses vary from year to year and are dependent on enrollment.

| | Standard Courses | Honors Courses | Advanced-Placement/ PLTW Courses |
|-------------|---|---|---|
| English | <ul style="list-style-type: none"> • Pre-AP English I • English II • English III • English IV Electives: Creative Writing | <ul style="list-style-type: none"> • English II Honors • English III Honors • English IV Honors | <ul style="list-style-type: none"> • AP English Language & Composition • AP English Literature & Composition • AP Capstone Seminar Electives: AP Seminar, AP Research *(Junior and Senior years only) |
| Mathematics | <ul style="list-style-type: none"> • Math I • Math II • Math III • Advanced Functions and Modeling | <ul style="list-style-type: none"> • Math I Honors • Math II Honors • Math III Honors • Pre-Calculus Honors • Calculus Electives: Principles of Business and Finance; Foundations of Engineering & Technology Honors | <ul style="list-style-type: none"> • AP Calculus AB • AP Calculus BC |
| Science | <ul style="list-style-type: none"> • Pre-AP Biology • Pre-AP Chemistry • Physical Science • Earth & Environmental Science | <ul style="list-style-type: none"> • Earth & Environmental Science Honors | <ul style="list-style-type: none"> • AP Chemistry • AP Environmental Science • PLTW Principles of Biomedical Sciences • PLTW Human Body Systems |

Curriculum Guide 2020-2021 (continued)

| <p>Triad Math and Science Academy offers a rich program of study in humanities, mathematics, sciences, languages, and the arts. Academic offerings follow the North Carolina Standard Course of Study, which focuses on math and science, English and history, and modern languages. These courses are complemented by electives in these areas and others. Many courses are offered at Honors, Pre-AP, Advanced-Placement/PLTW, or College (Dual Enrollment Courses from NCA&T and GTCC) levels. Courses vary from year to year and are dependent on enrollment.</p> | | | |
|---|---|--|--|
| | Standard Courses | Honors Courses | Advanced-Placement/PLTW Courses |
| Technology/ Comp. Sc | | | <ul style="list-style-type: none"> • PLTW Principles of Computer Science • PLTW Computer Science Essentials • PLTW Introduction to Engineering Design |
| Social Studies | <ul style="list-style-type: none"> • Pre-AP World History • Economics & Personal Finance • U.S. History I • U.S. History II <p>Electives: American Culture; Psychology; Sociology</p> | <ul style="list-style-type: none"> • U.S. History I Honors • U.S. History II Honors • Civics and Economics Honors | |
| World Languages | <ul style="list-style-type: none"> • Turkish I • Turkish II • Spanish I • Spanish II | <ul style="list-style-type: none"> • Turkish III Honors • Spanish III Honors | |
| Art and Music | <ul style="list-style-type: none"> • Visual Arts I (Beginning) • Visual Arts (Intermediate) • Pre-AP Visual Arts • Band (Beginning) | <ul style="list-style-type: none"> • Visual Arts (Proficient) Honors | <ul style="list-style-type: none"> • AP Music Theory |
| Other Courses | <ul style="list-style-type: none"> • Business Management • Life Skills • Health/PE • Team Sports • SAT Preparation • College and Career Prep *Juniors and Seniors only* • NC Virtual Public School *Must receive prior administrative approval * | | |

Awards and Distinctions:

In 2011, TMSA was selected to be school of distinction based on the ABC Growth

In 2010 TMSA Math Team won 1st Place in NC in Continental Mathematics League

In 2010 & 2011 Future City Design Team won 4th in the State Competition back to back.

TMSA Science Olympiad Middle School and Elementary Teams came in 4th place at their regional level competitions.

In 2013 Best Team Presentation Award in NC Future City Competition

In 2010 TMSA First Lego League Team came in 1st Place In state level competition and was also awarded to represent North Carolina in International FLL completion which was held in Netherland in 2010

2011 NC State School of Distinction Award

Stanford University acceptance by charter school senior first ever in the region-2015

Region 5 Intel-ISEF Science and Engineering Fair Host and Organizer since 2015

Organizer of the Regional FLL Competitions-2014

Middle School Science Olympiad 4th Best School in the Region-2015

Organizer of the Regional FTC Competitions-2014

FLL USA Representation at the Netherlands International competition-2011

FLL USA Representation at the Canada International Competition-2014 Bronze Medal Winner

Largest number award winning students at Regional Charter School STEM Fair-2015

Multiple students advanced to the State Intel-ISEF Science and Engineering Fair-2015

1st Place in the regional Math League competition-2014

2nd Place in the Regional Elementary Science Olympiad-2014

VEX Robotics Team advanced to the State Championship -2014, 2015

I SWEEEP (International Sustainable Energy Engineering Environment Project Olympiad) Houston, TX-2017 Bronze Medal Winner

GENIUS (International Science Project Olympiad) Oswego, NY-2017

Amazon + Edhesive Future Engineer Program Grant Recipient, 2020