



TRIANGLE MATH AND SCIENCE ACADEMY HIGH SCHOOL

2018-2019

Triangle Math and Science Academy High School

www.tmsacademy.org

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High School Principal

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College Counseling Department

Azem Kaplan

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College Counselor (9-11)

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College Counselor (Seniors)

Total Enrollment:

K-12: 904

HS Student-Teacher Ratio 18:1

OVERVIEW

Offering a rigorous college-preparatory curriculum with a strong emphasis in math and science, Triangle Math and Science Academy will graduate students prepared for enrollment in competitive universities, utilizing a variety of instructional opportunities such as technology courses, PLTW courses, online courses, dual enrollment, and internships. In order to assist students in becoming well-rounded citizens, they will be required to complete 100 community service hours before graduation. Our first Senior Class is to graduate in 2019.

TMSA GRADUATION REQUIREMENTS:

TOTAL 22 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)
Science Social Studies	4 credits (World History, Civic/Econ., and U.S. History I and II or AP US History and an additional social studies course)
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.</p> <p>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.</p> <p>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

Honor Graduate Distinctions

	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

Summa cum laude 3.75-4.00
Magna cum laude 3.50-3.74
Cum laude 3.00-3.49

W – Withdrawal I – Incomplete



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BACKGROUND

TMSA started in 2012, including K-6th grades. Each year, another grade is added. We currently have 904 students enrolled K-12th. Our first graduating class will be the spring of 2019. The academic program is organized in year-long courses. High school students enroll in 8 courses per year.

Student Athletic Teams, Academic Teams and Student Organizations

We have team sports, such as soccer, basketball, volleyball, swimming and track. These teams will 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 Student Council, Poetry Club, NHS, and Yearbook.

Students are provided multiple opportunities to compete in national competition in a number of subject areas. Academic teams include Model UN, Science Olympiad, DECA, FTC Robotics, and CyberPatriot. The number of academic teams will grow as our school grows. More information can be found [here](#) for clubs and organizations, and [here](#) for athletics.

Memberships:

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

Curriculum Guide 2018-2019			
Triangle 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 or Advanced-Placement/ PLTW or College (Dual Enrollment Courses from Wake Tech, NCSU, UNC) levels. We are an official CollegeBoard Pre-AP school. Courses vary from year to year and are dependent on enrollment.			
	Standard Courses	Honors Courses/Pre-AP	Advanced-Placement/ LTW Courses
English	<ul style="list-style-type: none"> English I English II English III English IV 	<ul style="list-style-type: none"> English I Pre-AP English II Honors English III Honors English IV Honors Electives: Journalism; Academic Writing	<ul style="list-style-type: none"> AP English Language & Composition AP English Literature & Composition *(Junior and Senior years only)
Mathematics	<ul style="list-style-type: none"> Math I Math II Math III Advanced Functions and Modeling Pre-Calculus 	<ul style="list-style-type: none"> Math I Honors Math II Honors Math III Honors Pre-Calculus Honors Electives: Business and Finance; Personal Finance	<ul style="list-style-type: none"> AP Calculus AB AP Calculus BC AP Statistics Multivariable Calculus Dual Enrollment
Science	<ul style="list-style-type: none"> Biology Chemistry Physical Science Environmental Science 	<ul style="list-style-type: none"> Pre-AP Biology Chemistry Honors Environmental Science Honors Physics Honors PLTW PBS PLTW HBS PLTW MI 	<ul style="list-style-type: none"> AP Biology AP Chemistry AP Environmental Science AP Physics (Algebra Based)
Technology / Comp. Sc.	<ul style="list-style-type: none"> Computer Programming 1 	<ul style="list-style-type: none"> Introduction to Python Programming Honors 	<ul style="list-style-type: none"> AP Computer Science Programming Cybersecurity PLTW - IED PLTW - POE



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Curriculum Guide 2018-2019 (continued)

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	Standard Courses	Honors Courses/Pre-AP	Advanced-Placement/ PLTW Courses
Social Studies	<ul style="list-style-type: none"> • World History • U.S. History I • U.S. History II • Civics and Economics 	<ul style="list-style-type: none"> • Pre-AP World History • U.S. History I Honors • U.S. History II Honors • Civics and Economics Honors 	<ul style="list-style-type: none"> • AP European History • AP U.S. Government & Politics • AP U.S. History • AP Human Geography • AP Psychology
World Languages	<ul style="list-style-type: none"> • German I • German II • Turkish II • Spanish I • Spanish II • Spanish III • French I • French II • French III 	<ul style="list-style-type: none"> • Spanish III Honors • Spanish IV Honors • French III Honors • French IV Honors • Turkish III Honors 	<ul style="list-style-type: none"> • AP Spanish Language and Culture Apex Learning
Art and Music	<ul style="list-style-type: none"> • Visual Arts I (Beginning) • Visual Arts (Intermediate) NCVPS • Visual Arts Specialization (Intermediate): Art of Fashion Design NCVPS 		
Other Courses	<ul style="list-style-type: none"> • Curriculum Assistance • Healthful Living (required in NC) 		