



TRIANGLE MATH AND SCIENCE ACADEMY HIGH SCHOOL

2019 - 2020

Triangle Math and Science Academy High School

www.tmsacademy.org

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College Counselor (10)

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College Counselor (Seniors)

Total Enrollment:

K-12: 901

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 AP courses, PLTW courses, CTE courses, dual enrollment courses, 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 class graduated in 2019. The second class will graduate in May of 2020.

TMSA GRADUATION REQUIREMENTS:

TOTAL 22 CREDITS

Mathematics	4 credits (Math I, II, III and 4th Math Course to be personalized per student academic plan)
Science	3 credits (Biology, a physical science course and Environmental Science)
English	4 credits (English I, II, III or AP Language, and 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)

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](#).

Grading System: Quality Points By Course

Honor Graduate Distinctions

	AP/Dual	Honors/Dual	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

Summa cum laude 3.75 - 4.00

Magna cum laude 3.50 - 3.74

*NCDPI regulates the weight per course. Some dual enrollment courses are weighted as 4.5, and some are 5. PLTW Engineering classes are 5.0, Biomedical are 4.5. Please see the NCDPI documents or contact the counselor for more information.



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BACKGROUND

TMSA started in 2012, including K - 6th grade. Each year, another grade was added. We currently have just over 900 students enrolled K-12. Our first class graduated in June of 2019. Our academic program is organized in year-long courses, with a focus on rigorous curriculum. We have specialized programs, such as PLTW courses, official CollegeBoard Pre-AP courses, many AP courses, CTE courses, dual enrollment opportunities, and more. High school students enroll in 8 courses per year and are on a year round, A/B schedule.

Student Athletic Teams, Academic Teams, and Student Organizations

At TMSA, it is our mission to use athletics to aid in academic, social, and physical development of our students through promotion of teamwork and sportsmanship through amateur athletics. Our school is a member of the NCHSAA as a part of the North Central 1A Conference. Our school offers the following sports: Baseball, Basketball (Men's and Women's) Cross Country (Men's and Women's), Soccer (Men's and Women's), Softball, Swimming (Men's and Women's), Tennis (Men's and Women's), and Volleyball.

High school students are offered the opportunity to join student organizations such as Student Council, Poetry Club, NHS, HOSA, Red Cross Club, Media Club, and many more.

Students are provided multiple opportunities to compete in national competitions 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 2019-2020			
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/ PLTW 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; Creative Writing; Speech; ACT Prep	<ul style="list-style-type: none"> AP English Language & Composition* AP English Literature & Composition* (to begin fall 2020) AP Capstone *(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 Elective: Business and Finance; ACT Prep	<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 	<ul style="list-style-type: none"> Pre-AP Biology Chemistry Honors PLTW PBS 	<ul style="list-style-type: none"> AP Biology AP Chemistry AP Environmental

	<ul style="list-style-type: none"> Environmental Science 	<ul style="list-style-type: none"> PLTW HBS PLTW MI Forensic Science Science Research Robotics 	<ul style="list-style-type: none"> 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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	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 AP World History
World Languages	<ul style="list-style-type: none"> Turkish I Turkish II Spanish I Spanish II French I French II 	<ul style="list-style-type: none"> Spanish III Honors Spanish IV Honors French III Honors French IV Honors Turkish III Honors Turkish IV Honors 	<ul style="list-style-type: none"> AP Spanish Language and Culture
CTE Courses		<ul style="list-style-type: none"> Principles of Business and Finance Honors Principles of Hospitality and Tourism Honors Marketing Applications Entrepreneurship Honors 	
Other Courses	<ul style="list-style-type: none"> Curriculum Assistance Healthful Living (required in NC) 		