



TRIANGLE MATH AND SCIENCE ACADEMY HIGH SCHOOL

School Profile: 2021-22

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CEEB Code: 340604

High School Principal:

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High School Dean of Students

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High School Academic Dean

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College Counselor (Grades 11-12)

Kristen Jackson
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College Counselor (Grades 9-10)

Sarah Van Doren
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Total Enrollment (K-12): 1035

HS Student-Teacher Ratio 25:1

Memberships:

-National Association of College
Admission Counseling (NACAC)

-Southern Association for College
Admission Counseling (SACAC)

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 through local community colleges and universities, and internships. In order to assist students in becoming well-rounded citizens, they are encouraged to complete 100 community service hours before graduation. Our first class graduated in May of 2019.

BACKGROUND

TMSA started in 2012, including K - 6th grade. Each year, another grade was added. We currently have just over 1,000 students enrolled K-12. Our first class graduated in May of 2019. Our academic program is organized into year-long courses, with a focus on a rigorous curriculum. We have specialized programs, such as PLTW (Project Lead the Way) courses, official College Board Pre-AP courses, many AP courses, CTE courses, dual enrollment opportunities, and more. High school students enroll in 6 courses per year and are on a year round daily schedule.

ATHLETICS, ACADEMIC TEAMS & 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 interscholastic athletics. Our high school is a member of the NCHSAA as a part of the Central Tar Heel 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), Men's Tennis, and Volleyball. At the middle school level, we offer: Baseball, Basketball (Boys and Girls), Cross Country (Boys and Girls), Soccer (Boys and Girls) and Volleyball.

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

Students are provided multiple opportunities to compete in national competitions in a number of subject areas. Academic teams include: Science Olympiad, DECA, and FTC Robotics. The number of academic teams will grow as our school grows.



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Graduation Requirements: 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 or AP literature)
Science Social Studies	4 credits (World History, American, Civics, and Econ/Personal Finance, or AP level History)
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 strategically earn academic credits beyond the minimum requirements so that our students be the best prepared for higher education.

	AP/Dual	Honors/Dual/Pre AP	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
W- Withdraw I- Incomplete			

Summa Cum Laude: 3.75-4.0

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 5.0. 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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Curriculum Guide 2021-22

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 College Board Pre-AP school. Courses vary from year to year and are dependent on enrollment.

	Standard Courses	Honors Courses/Pre-AP	Advanced-Placement/PLTW
English	<ul style="list-style-type: none"> English III English IV <p>Electives:</p> <p>ACT/SAT Prep</p>	<ul style="list-style-type: none"> English I Pre-AP English II Pre-AP English III Honors English IV Honors 	<ul style="list-style-type: none"> AP English Language & Composition* AP English Literature & Composition* AP Capstone AP Research <p>*(Junior and Senior years only)</p>
Mathematics	<ul style="list-style-type: none"> Math I Math II Math III Math IV <p>Electives: ACT/SAT Prep</p>	<ul style="list-style-type: none"> Math II Honors Math III Honors Pre-Calculus Honors 	<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"> Physical Science Environmental Science <p>Electives:</p> <p>Animal Science, Forensics, Zoology & Science Olympiad</p>	<ul style="list-style-type: none"> Pre-AP Biology Pre-AP Chemistry PLTW Biomedical Pathway (PBS, HBS & Medical Int) 	<ul style="list-style-type: none"> AP Biology AP Chemistry AP Environmental Science AP Physics 1 (Algebra Based) AP Physics C: Mechanics
Tech./ Comp. Sci	<ul style="list-style-type: none"> Data Science 	<ul style="list-style-type: none"> PLTW- Cybersecurity 	<ul style="list-style-type: none"> PLTW -Engineering Pathway (IED, POW & Dig. Electronics)
Social Studies	<ul style="list-style-type: none"> American History Civics and Economics Economics and Personal Finance 	<ul style="list-style-type: none"> Pre-AP World History American History Honors Civics and Economics Honors 	<ul style="list-style-type: none"> AP Government & Politics AP U.S History AP Psychology AP World History
World Languages	<ul style="list-style-type: none"> Spanish I & II German I & II 	<ul style="list-style-type: none"> Spanish III & IV Honors German III & IV Honors 	<ul style="list-style-type: none"> AP Spanish Language & Culture
CTE Courses		<ul style="list-style-type: none"> Principles of Business and Finance Honors Entrepreneurship I Honors Accounting 	
Other Courses	<ul style="list-style-type: none"> Curriculum Assistance Healthful Living (required in NC) High School Band Senior Seminar 	<ul style="list-style-type: none"> Pre AP Visual Arts 	