



The Sandy Creek STEM Academy strives to for excellence in and out of the classroom. We believe that our students will rise to meet high expectations deserve a rich, rigorous and challenging educational experience.

STEM student requirements are:

- **Maintaining 3.0 or higher GPA**
- **Enrolled in Accelerated Math all 4 years of High School**
- **Research projects each semester**
- **Participation in Academic Team**
- **Participation in Honors Society when eligible (10<sup>th</sup> & 11<sup>th</sup> grade)**
- **Participation of STEM Academy club meetings, service project and STEM talks**
- **Take required courses as indicated on sample schedule**

When a student does not meet the requirements listed above, student may be placed on probation or be removed from the program if performance does not improve.

## STEM Extracurricular Clubs

Students must be an active member in at least 1 Honor Society and 1 Academic Competition Team.

### Honors Societies

Mu Alpha Theta

National Honor Society

Science National Honor Society

National Technical Honor Society

### Academic Competition Teams

Academic Bowl

Math Team

HOSA

TSA

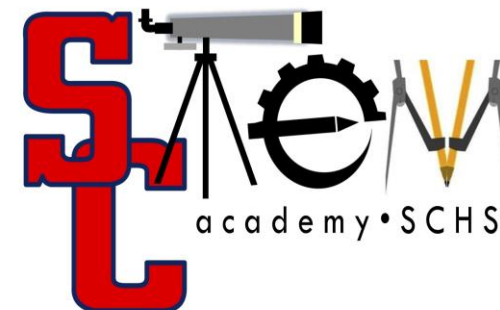
Robotics

### STEM Academy Club

Meets every 2<sup>nd</sup> Thursday of the month. This club is a student lead organization that meets inform students of upcoming events in STEM, team building exercises, STEM activities and STEM Professional talks.

# Sandy Creek

## HIGH SCHOOL



Sandy Creek High School  
360 Jenkins Road  
Tyrone, GA 30269  
(770) 969-2840

For more information, contact:  
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Sandy Creek STEM Website:  
[www.fcboe.org/domain/515](http://www.fcboe.org/domain/515)

## THE MISSION

The Sandy Creek High School STEM Academy is a new approach to promoting study of disciplines essential to the progress and productivity in the 21<sup>st</sup> century workplace. A committed group of teachers, using advanced technologies and real-world contexts, will guide an equally committed group of students to the levels of mastery required for competitive college programs and rewarding careers in the STEM fields. Our goal is to help develop critical-thinking, solution-orientated and sustainability-conscious young professionals.

### STEM AREAS OF FOCUS

The STEM Academy offers three areas of focus for incoming students based on interest: Advanced Life Science, Computer Science and Engineering. This course framework has been built to resemble college course work allowing STEM students to find their passion and be well-rounded students. Each area focuses on a specific spectrum of courses designed to enhance student's knowledge and abilities specific to that field of study. Examples of jobs for each area of focus.

**Advanced Life Science:** Medical, Agriculture, Forensic Science, Genetics, Animal Science

**Computer Science:** Computer Engineering, Information Systems/Technology, Software Engineering, Game/App Design

**Engineering:** Aerospace, Biomedical, Civil, Environmental, Industrial, Mechanical

## SAMPLE SCHEDULE

<u>Subject</u>	<u>9th Grade</u>	<u>10th Grade</u>	<u>11th Grade</u>	<u>12th Grade</u>
<b>Math</b>	A) Accelerated Geo/Alg 2 B) Accelerated Alg 1/Geo	A) AP Stat* B) Accelerated Geo/ Alg 2	A) Acc Pre-Calculus B) Acc Pre-Calculus	A) AP Calculus AB* B) AP Stat*
<b>Science</b>	Biology	Chemistry	AP Physics*	Anatomy & Physiology or AP Physics C or AP Biology* or AP Chemistry* or AP Computer Science*
<b>STEM Elective</b>	Scientific Research I	AP Environmental Science*	AP Biology*, AP Chemistry* or AP Computer Science Principles*	Advance Scientific Research II
<b>English</b>	Literature	World Literature	American Literature or AP Language	British Literature or AP Literature
<b>Social Studies</b>	AP Human Geography	World History or AP World History	US History or AP US History	Economics, Government or AP Government
<b>Elective</b> *Student choice	Fine Arts or World Languages	Fine Arts or World Languages	Fine Arts or World Languages	Fine Arts or World Languages
<b>Elective</b> *Student choice	Personal Fitness and Health	CTE 1st Year	CTE 2nd Year	CTE 3rd Year

### ADMISSIONS

Rising 9<sup>th</sup> graders begin the candidate process by completing an online application and writing sample. **This application will open on March 1<sup>st</sup>, 2018 and will close on March 9<sup>th</sup>, 2018.** The applicant's grades in Math and Science, along with standardized test scores, and teacher recommendations are factored into the admissions process.

### FREQUENTLY ASKED QUESTIONS

- Can I apply for the STEM Academy as a sophomore or junior? *No, this is a four-year program.*
- Can I leave the STEM Academy? *Yes, upon approval of the STEM committee and administration.*
- Can I be removed from the STEM Academy? *Yes, if you do not follow the listed requirements you will be placed on probation for a semester and with no improvement you will be removed.*
- What do I get out of STEM? *You will receive real-world problem based learning opportunities. You will also be exposed to challenging and rigorous coursework in high interest STEM fields that will prepare you for research-university systems.*

