

We are pleased with your interest in the STEM (Science, Technology, Engineering and Mathematics) program at Lithia Springs High School. The LSHS STEM Academy prepares you for post-secondary workforce skills in science, mathematics, engineering or technology. The program encourages you to stretch your accomplishments in an academic environment of rigorous course work where you can thrive and excel. Additionally, you will graduate with a designation in STEM and a internship experience.

The STEM program will enrich your high school experience. Our school creates an environment where teachers and counselors get to know you personally and help you make this a gratifying and successful experience. The STEM program has formed unique partnerships with professionals in our community. Guest speakers will expose you to exciting and rewarding career possibilities.

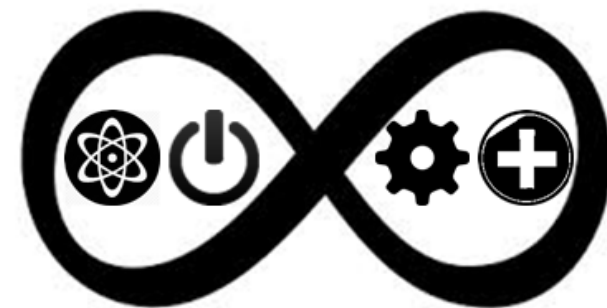
For more information  
and how to apply,  
please go to:

<https://sites.google.com/site/lshsstem>

Lithia Springs High School  
Elaine Wood  
2520 East County Line Road  
Lithia Springs, GA 30122

Phone: 770-651-6848  
E-mail: [elaine.wood@douglas.k12.ga.us](mailto:elaine.wood@douglas.k12.ga.us)

Lithia Springs High School



STEM Academy



# STEM Academy

The curriculum for STEM students at LSHS is unique and explicitly identified for the program. The curriculum is rich in honors and AP science, math, English/ language arts, and social studies. In addition, students study either biomedical science or engineering to reflect real world experiences. Students are required to take a minimum of five advanced placement courses (two in ELA, three in science, and one in math), but may take more during their high school career. Students have elective periods in which they can pursue interests in the arts, technology, math, or science. Instruction is primarily student centered. Reflecting real-life, students work in teams to solve authentic, cross-curricular problems and carry out projects, using both the design process and open-ended inquiry, to elevate learning to the application and adaptation level. Students present their findings and argue to defend their results to panels of community and business leaders.

## Mechatronics

**Mechatronics is an interdisciplinary area of engineering that combines mechanical and electrical engineering**

Electronics

Robotics

Design

Programming

Hands on Projects

Capstone Project

Internship

## Biomedical Sciences

**The application of the principles of the natural sciences to medicine.**

DNA Analysis

Crime Scene Investigation

Dissections

Prosthetics Design

Disease Prevention Exploration

## Additional Opportuni-

During enrichment, students participate in nine four-week mini classes which include an orientation for ninth graders, seminars in sub disciplines, science fair, career portfolios, and research classes that provide the skills needed for college-level work in STEM fields.

All STEM students participate in STEM competitions such as local, state, and national Science and Engineering Fair, Robotics Team, Science Olympiad, Math Challenge, Siemens Challenge, and TAG Web Challenge.

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