

Be On The Cutting Edge

Scientists EXPLORE The World That Is.

Engineers CREATE The World Of The Future.

Okay, we know that math, sciences, and engineering may not be for everybody. But to many students, they can be an absolute blast! And they can prepare you for exciting, rewarding futures in college, the workforce or the military.

The Math, Science and Engineering Academy Magnet at Robert E. Lee High School is all about exploring the fascinating world of science and technology—and getting a head start on creating the world of the future.

As an Honors Program with subjects like AP English, social studies and foreign languages, our magnet students take courses in AP biology, chemistry, physics, calculus and engineering. If this is the kind of stuff that gets you fired up, come join us!



Keystone Projects

Students embark on exciting group projects. Many technology concepts will be integrated in these broadly based projects. These serve as stepping stones to the Capstone Project.

Capstone Projects

In eleventh and twelfth grades, students choose one large-scale project and work on research, design and fabrication. Conceptualized in eleventh grade, the project is completed in the twelfth. Students benefit from mentorship by professionals in the field of their project and are judged by local business leaders. This real-world partnership often gives students the inside track on employment after college!

Hard Science And Soft Skills

Ours is a rigorous but rewarding program that teaches you the “hard science” of many disciplines in addition to the “soft skills” you’ll need to succeed—things like teamwork, communication and project design.

Students focus on a variety of engineering disciplines, including electrical systems, control systems, pneumatics, robotics, CNC and CAM, desktop publishing, thermodynamics, structural engineering, CAD and more. Students then apply what they have learned in a semester design project that uses each of the technology areas they have studied.

Projects may include smart-house security systems, personal hovercraft, a steam-powered catapult, an automated hydroponics garden or many others. You’ll take your learning out of the classroom and into the real world of scientific application.

Don't Just Prepare For The Future—Create It!

At the Math, Science and Engineering Academy, we’re preparing students for the most fascinating, valuable and rewarding careers of the 21st century. It’s a thrilling ride. Why not join us?

Robert E. Lee High School

MATH, SCIENCE & ENGINEERING ACADEMY MAGNET



On The Cutting Edge



Overview Of Programs

Rigorous Academics

- Honors/AP sciences
- Accelerated math
- Required Engineering Courses
- Engineering/technology/science electives
- Keystone/Capstone Project
- Dual Enrollment Engineering

Science

- Anatomy and Physiology
- Biology (honors, AP)
- Physics (honors, AP)
- Group research—Keystone Project
- Chemistry (honors, AP)
- Environmental science (AP)
- Forensic science
- Genetics
- Individual research—Capstone Project

Math

- Algebra II (Algebra I required for application)
- Geometry
- Calculus (AP)
- Statistics (AP)

Engineering

- Engineering technology I, II, III
- Group research—Keystone Project
- Advanced applications in technology
- Individual research—Capstone Project
- Dual Enrollment

Extracurricular Activities

Our extracurricular programs give students the opportunity to explore options that may not be offered in classes or are of particular interest to them.

Competitions

- SECME Engineering Design Competition (Regional Champions, National Finalist)
- SECME Rocketry Competition (National Champions)
- BotBall Robotics Competition (International Finalist)
- West Point Bridge Design Competition
- U.S. Army Corps of Engineers Engineering Week Competition
- Jacksonville University Engineering Week Competition (District Champions)

*Our Magnet Program's Mentorship Program is unlike any other. Students work with engineers and scientists in the industry on projects that the students choose. They get an idea of what it takes to be successful in the **real world**, as well as building up a network of professional contacts while still in high school. Mentorship projects can lead to summer internships, college scholarships, and even employment after college!*

*For more information,
call (904) 381-3930
or visit www.duvalschools.org/lee.*

Explore And Create

