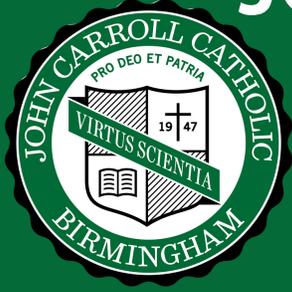


JCCHS ENGINEERING ACADEMY



The Engineering Academy at John Carroll Catholic High School provides students with a focused program of studies designed to encourage college readiness for careers in Science, Technology, Engineering, and Mathematics. This is accomplished through hands-on engagement, rigorous academic coursework, and interaction with local scientific and professional communities.

COURSE REQUIREMENTS

In addition to regular Math and Science courses, students are required to take the following courses:

- AP Computer Science Principles (1 credit)
- Robotics (0.5)
- STEM (0.5 or 1)
- Senior Design (pass/fail course)

*Students must maintain a minimum B average in all Science, Math, and elective courses.

EXTRA-CURRICULAR PARTICIPATION

Students are required to participate in the following programs at least once during their JC career (though students are allowed and encouraged to participate annually):

- JC Robotics Team
- Science Olympiad
- ACE Mentoring Program

SENIOR DESIGN PROJECT

The Senior Design Project allows students to design, test, and build prototypes for real world applications. Students will apply the engineering design process to: define and scope a problem; analyze relevant factors; apply engineering methodologies and computational tools; and generate and evaluate solutions. The Senior Design Project is completed in conjunction with the Senior Design course.

CULTURAL CREDITS & FIELD TRIPS

Students have the opportunity to attend a number of cultural events and field trips throughout Birmingham and the Southeast. These events are designed to expand students' experiences and complement the learning that takes place in our classrooms. Community partners and available experiences include: UAB, Birmingham Southern College, Samford University, BJCC, Mercedes-Benz plant, local architecture and design firms, and more!

John Carroll College and Career Academies are available for all rising Sophomores, Juniors, and Seniors. Applications open at the end of the 3rd quarter each year. We currently offer academies in Engineering, Honors studies, Fine Arts, and Social Justice. For more information about Engineering Academy contact Academy Chairs Ms. Gasser (mgasser@jcchs.org) or Mrs. Tarbox (starbox@jcchs.org).