



Research Interests

The following are interest areas that the rising senior class would like to pursue for their senior research experience. Future seniors will have additional ideas:

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|------------------------|------------------------|
| Advertising | Forensic Science |
| Aerodynamics | Genetics |
| Aerospace | Human Anatomy |
| Architecture | Math |
| Art | Mechanical Engineering |
| Astronomy | Medicine |
| Biochemistry | Meteorology |
| Biomedical Engineering | Microbiology |
| Biotechnology | Music |
| Biomedical Science | Neonatal Medicine |
| Biology | Nuclear Medicine |
| Cardiology | Nutrition |
| Computer Programming | Ophthalmology |
| Computer Engineering | Orthopedics |
| Computer Science | Orthodontics |
| Chemistry | Physical Therapy |
| Cycling | Physics |
| Genetics | Physiology |
| Graphic Arts | Psychology |
| Drafting | Psychiatry Radiology |
| Drama | Robotics |
| Economics | Sports Medicine |
| Electrical Engineering | Structural Engineering |
| Electronics | Telecommunications |
| Emergency Medicine | Theatre/Acting |
| Epidemiology | Veterinary Medicine |
| Food Industry | |



Wheeler Magnet Senior
INTERNSHIP & RESEARCH
EXPERIENCE
 Advanced Scientific Internship Program



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375 Holt Road, Marietta, Georgia 30068

The Center for Advanced Studies

at

Wheeler High School

Our Program

The Center for Advanced Studies at Wheeler High School is a STEM & STEAM Georgia Certified Magnet program that attracts the best high school math and science talent in Cobb County. The rigorous curriculum offers our students the opportunity to take advanced math and science courses typically offered in college.

Seniors in our program are ahead of many university students in the breadth and depth of their technical studies and are ready to pursue in-depth scientific research.



The Senior Internship & Research Experience

The Senior Research Experience is a capstone program for seniors at The Center for Advanced Studies. This course enables these highly qualified students the opportunity to study, research, and work with professional mentors in their area of interest and apply the knowledge and skills obtained through the Center's rigorous curriculum.

With the support of the Internship Coordinator, each senior is responsible for identifying areas of specific personal interest and arranging to work with a mentor who is an expert in that field. The mentor will help guide the student with their research topic.

Internship

Students participate in an advanced internship with a mentor at an off-site research center or business. During the required 14-week internship period, students must log 9 hours per week at the site, totaling a minimum of 100 hours.

Research

In addition to the Internship, students are required to frame and complete an independent research project that is related to their internship. Throughout their internship, they are required to compile a well-documented, juried, in-depth research paper. At the conclusion of this capstone experience, students prepare and deliver a comprehensive presentation to faculty, mentors and peers.

Every graduating magnet senior is required to complete our Post AP Scientific Internship and Research courses which are taken together as a 3 hour pair in the morning or afternoon during the fall or spring semester.



How You Can Help

Serve as a Mentor

Agree to serve as a guide and resource as a talented student learns to apply their analytical research skills outside of the classroom setting. Each mentor relationship is unique and is designed around the expertise and time availability of the mentor.

Most mentors take on a single student; however, there are some research endeavors that work well with multiple students. Flexibility is the key to a successful project.

Open a door

Experience has shown that the best mentor opportunities are often developed as a direct result of introductions and professional connections made on behalf of our students by parents and interested community leaders.

Mentors do not need to be located in Atlanta but should have an office/work space in Atlanta where student mentees are able to report to with adult supervisors for assistance.

Timeline

Wheeler High School runs on a block schedule with students taking 4 classes each 18 week semester. Fall semester is from August through December and Spring semester is from January through May.

Magnet seniors are enrolled in their Internship and Research classes during one of the two semesters for 2 consecutive blocks, 1st & 2nd or 3rd & 4th. This gives the students at least a 3 hour window of time to devote to their off campus experience.

