

Major Entrance Requirements

- Two Units of English
- Two Units of Math (must include Geometry or Algebra 2)
- Two Units of Science (must include Biology)
- One Unit of Physical Education

Application Process

- Apply online through Horry County Schools or the AAST website.
- Thoroughly complete the application before the deadline.
- If accepted, return the acceptance confirmation by the district deadline.

Vision

Realize the Possibilities

Mission

AAST is a Cognia STEM certified school committed to preparing its students to be college and career-ready global citizens by fostering creativity, innovation, systematic problem-solving, and critical thinking through participation in rigorous and authentically collaborative academic and career experiences.



What is STEM?

STEM stands for Science, Technology, Engineering, and Mathematics. STEM is a philosophy of education embracing teaching skills and subjects in a way that resembles real life. STEM is about discovering and creating ingenious ways of problem solving, integrating principles, or presenting information. Instead of teaching courses in independent subject compartments, lessons are well rounded, project and inquiry based, with a focus on interdisciplinary learning. STEM education prepares students to explore and advance in their chosen STEM related career pathway to ensure they are college and career ready. Education is no longer about memorizing facts. STEM is about learning how to think critically, evaluate information, apply knowledge, and problem- solve to compete in the 21st century workforce.

Biomedical Science Instructor

Tiffany Sellers
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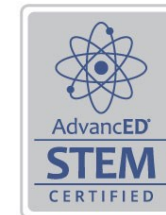
Guidance Counselors

Wanda Randall - NMB, GSF, LHS, AHS, MBH
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Lacey Gordon - CFHS, CHS, SHS, SJHS
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Administration

Kelly Wilson - Principal
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Mariah Reiss– Assistant Principal
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Biomedical Science



The Academy for
the Arts, Science,
and Technology

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What is Biomedical Science?

Working with the same equipment and tools used by lab professionals, Biomedical Science students are empowered to explore and find solutions to some of today's most pressing medical challenges. Through scaffolded activities that connect learning to life, students step into the roles of biomedical science professionals and investigate topics including human medicine, physiology, genetics, microbiology, and public health. Students work together in teams to find unique solutions, and in the process, learn in-demand, transferable skills like critical thinking and communication.

Areas of Study

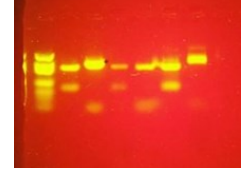
- Anatomy and Physiology
- Lab Skills, such as bacterial plating and DNA electrophoresis
- Clinical Skills, such as Spirometry and ELISA
- Equipment and Software Proficiencies
- Scientific Experimentation Skills
- Professionalism



Major Courses Junior Year

Principles of Biomedical Science (Honors)

By engaging in activities like dissecting a sheep heart, students explore concepts of biology and medicine to determine factors that led to the death of a fictional person.



Human Body Systems (Honors)

(includes 10 hour OSHA certification)

Through projects such as determining the identity of a skeleton using both forensic anthropology and DNA analysis, students examine the interactions of human body systems and apply what they know to solve real-world medical cases.

Major Courses Senior Year

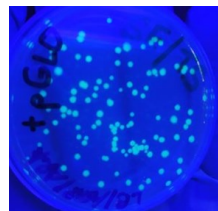
Medical Interventions (Honors)

Students delve into activities like designing a prosthetic arm as they follow the life of a fictitious family and investigate how to prevent, diagnose, and treat disease.

Biomedical Innovations (Honors)

Students build on the knowledge and skills gained from previous courses to design their own innovative solutions for the most pressing health challenges of the 21st century.

Recommended Courses



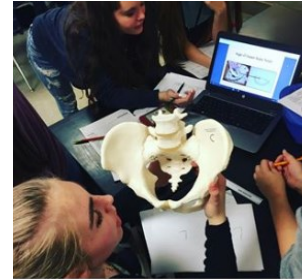
AP Biology
AP Chemistry
*Can earn PLTW +AP Recognition

Opportunities

- Local, regional, and national competitions
- Inquiry and project based learning
- Can earn college credit
- Can earn dual credit GPA weight
- Can earn Biotechnician Assistant

Credential

- Career research and exploration



AP Capstone Opportunity

Students may choose to pair AP Capstone with the Biomedical Science major. Students must take AP Capstone Seminar in their junior year followed by AP Capstone Research in their senior year.

