

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 whole school 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.

Informatics Instructor

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Guidance Counselors

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Informatics



The Academy for
the Arts, Science,
and Technology

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What is Informatics?

Informatics is the process of designing systems that take raw data and convert it into new knowledge that can be applied to any field while considering the impact on individuals, organizations and society. For example, students design, build and test a database to collect data on customers' shopping habits that will lead to target marketing of products customers will purchase. In today's global market, the ability to collect vast amounts of information cost-effectively is changing the way business manages information, creates knowledge and makes decisions. This program will prepare students with the knowledge and skills to be successful in both college and the global workforce.



Major Courses

Course 1: Computers, Networks and Databases

This project-based-learning course engages students who are curious about informatics. In this course, students will learn how to use a design process to create systems that acquire, store and communicate data for a variety of career fields. Students will work collaboratively in teams to design systems, solve problems, think critically, be creative and communicate with each other and business partners.

Course 2: Design for the Digital World

This project-based-learning course engages students who are interested in applying the design process to create systems such as a cloud-based digital storage system for images. Students will design a system to automatically collect and report data on highway usage. They will apply a geospatial system to map a store and develop a database that studies shopping habits.

Course 3: Databases in the Cloud

This project-based-learning course is for students who successfully completed courses one and two and who want to tackle the more complex challenges that business and industry face. Students at this level will learn about Web technologies, cloud storage, information security, data, animation, introductory computer programming and database applications.

Course 4: Developing a Cloud Presence

Students in this capstone course will focus on the ethics of privacy, social networking, designing for clients and artificial intelligence through six authentic projects. Students will select a business partner and design, build and test a Web presence for a company that will apply the concepts from the three prior courses.

Opportunities

- Industry guest speakers
- Career research and exploration
- Inquiry and project based instruction
- Industry standard certification



AP Capstone Opportunity

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

