

## 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.
- 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.

## 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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Horry County Schools does not discriminate on the basis of race, religion, color, national origin sex, immigrant status, English speaking status, or any other characteristic protect- ed by applicable federal or S.C. law in its programs or



## Networking with Cybersecurity



**The Academy for the Arts, Science, and Technology**

**895 International Drive  
Myrtle Beach, SC 29579  
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# What is Networking?

Networking Systems introduces students to: industry domains including network architecture; network operations; network security; network troubleshooting, industry standards, practice, and network theory; and workplace readiness and leadership skills. In addition, instruction and training are provided for the proper care, maintenance, and use of networking software, tools, and equipment. Particular emphasis is given to the use of critical thinking skills and problem-solving techniques with a primary focus on opportunities for hands on learning. These courses provide a foundation baseline of knowledge necessary for all IT industries. At the completion of the Networking Systems Major, an opportunity of an Industry Certification Credential in CompTIA Network+ can be available.

## Career Pathways

	Median Salary
Computer Network Architects	\$116,780
Database Administrators	\$98,860
Database Architects	\$98,860
Information Security Analysts	\$103,590
Network Systems Administrators	\$84,810
Telecommunications Engineering Specialists	\$116,780

# Major Courses Junior Year

## Networking Fundamentals 1

Networking Fundamentals provides students with classroom, laboratory, and hands-on experience in current and emerging networking technologies.

## Cybersecurity Fundamentals

This course provides students with a broad exposure to the many aspects of digital and information security, while encouraging socially responsible choices and ethical behavior. It inspires algorithmic and computational thinking, especially “outside-the-box” thinking. Students explore the many educational and career paths available to cybersecurity experts, as well as other careers that comprise the field of information security.

## Computer Science Elective

# Major Courses Senior Year

## Advanced Networking

Advanced Networking is designed to provide students with classroom, laboratory, and hands-on experience in current and emerging networking technologies.

## Advanced Cybersecurity

In this course, students examine the core concepts and terminology of cyber security and information assurance, integrating the importance of user involvement, network architecture, threats and security; operational and system security; cryptography; contingency planning; application, data, and host security; access control and identity management; and a broad range of other topics.

## Computer Science Elective Computer Science Elective

# Networking Electives

- AP Principles of Computer Science
- Fundamentals of Web Page Design and Development
- GIS Technology 1
- GIS Technology 2
- Global Logistics Course 1 Honors
- Informatics Course 1 Honors
- IT Fundamentals
- Fundamentals of Computing
- Introduction to Computer Programming
- Intermediate Computer Programming
- Introduction to Logistics Honors
- Computers, Networks and Databases Honors
- Design for the Digital World Honors
- Functional Areas in Logistics Honors



Students can join CyberPatriot, a national youth cyber education program created in the United States to help direct students toward careers in cybersecurity.

