



***Vision: To create an environment where our learners grow as individuals while gaining professional expertise and skills.***

***Mission: To offer inspiration through advanced instruction and authentic experiences.***

**Instructor:** Jenn Clark

Email me at [jennifer.clark@henry.k12.ga.us](mailto:jennifer.clark@henry.k12.ga.us). Please allow 24 hours for a response. Conferences can be scheduled via the counselors between 7:45 and 8:15 am.

### **Advanced Cybersecurity**

Advanced Cybersecurity is designed to provide students the advanced concepts and terminology of cybersecurity. The course explores the field of cybersecurity with updated content including new innovations in technology and methodologies. It builds on existing concepts introduced in Introduction to Cybersecurity and expands into malware threats, cryptography, organizational security, and wireless technologies. Various forms of technologies will be used to expose students to resources, software, and applications of cybersecurity. Professional communication skills and practices, problemsolving, ethical and legal issues, and the impact of effective presentation skills are enhanced in this course to prepare students to be college and career ready. Employability skills are integrated into activities, tasks, and projects throughout the course standards to demonstrate the skills required by business and industry. Competencies in the co-curricular student organizations are integral com

### **Course Objectives**

AAS associates will

- Provide foundational knowledge for pathways in:
  - Cloud Computing
  - Computer Science
  - Game Design
  - Internet of Things
  - Programming
  - Web and Digital Design
  - Web Development
- Enable high school students to understand, communicate, and adapt to a digital world impacting personal life, society, and business.
- Teach foundational knowledge in:
  - Programming languages
  - Software development

- App creation
- User interfacing applications
- Conduct hands-on activities and project-focused tasks in a computer lab.
- Encourage students to apply their knowledge to real-world situations.
- Develop students' ability to defend their actions, decisions, and choices through acquired knowledge and skills.
- Integrate employability skills into activities, tasks, and projects.
- Demonstrate skills required by business and industry.
- Highlight various emerging technologies impacting the digital world.
- Emphasize professional communication skills and practices.
- Teach problem-solving, ethical and legal issues, and the impact of effective presentation skills.
- Prepare students to be college and career ready.
- Incorporate competencies from co-curricular student organizations into employability and content standards.

Required Supplies
<ul style="list-style-type: none"> <li>● Writing Utensil</li> </ul>

Expectations for Academic Success
<ul style="list-style-type: none"> <li>● Attend class daily.</li> <li>● Be prepared for class.</li> <li>● Respect yourself and others.</li> <li>● Ask questions.</li> <li>● Contribute new ideas.</li> <li>● Work hard, and give your best effort.</li> </ul>

**Grade Calculation**

Summative Assessments = 40%	Formative Assessments = 40%
<ul style="list-style-type: none"> <li>● Authentic learning projects, exams, presentations, essays, labs</li> </ul>	<ul style="list-style-type: none"> <li>● Practice Work: classwork, homework, quizzes, labs, employability skills</li> </ul>
Culminating Final Exam/Project = 20%	
<p>All courses will have a culminating exam or project that assesses associate learning of the semester's course content. This exam/project will be 20% of the overall course grade.</p>	

**Attendance**

Your presence in class matters.

**Make-up Work**

Absent associates are required to contact the instructor for make-up work before or after school, not during the middle of class. The associate will have the same number of days as they were absent to complete the make-up work.

**Late Work Policy**

*Late work will be accepted up to 5 days after the due date and will not be accepted beyond that not even for partial credit.*

**Career and Technical Student Organizations [CTSOs]**

In addition to course integration, we will have a once-per-month activity schedule where associates can participate in their CTSOs.