# Partners in Education
# Associate of Applied Science (AAS) – Cybersecurity

The Cybersecurity program prepares individuals to assess the security needs of computer and network systems, recommend safeguard solutions, and manage the implementation and maintenance of security devices, systems, and procedures. Upon successful completion of the program, students will have the needed background to prepare to take a number of industry certifications in the field of cybersecurity. Examples include but not limited to CompTIA Network+; CompTIA Security+; CompTIA Linux +, MTA (Microsoft Technology Associate) and/or MCSA (Microsoft Certified Solutions Associate); and CompTIA Advanced Security Practitioner (CASP).
The Cybersecurity Degree will be offered at the Collaboration Campus. ACC has a transfer articulation with CSU Pueblo, under which students are guaranteed a junior standing with no more than 61 credits to meet the graduation requirements for a bachelor degree in Computer Information Systems-Cybersecurity Concentration issued by CSU-Pueblo. In order to achieve this, students must be dually enrolled at ACC and CSU-Pueblo during AAS coursework and work with an advisor for correct course sequencing.

***Courses offered toward degree at Castle View High School***

*Highlighted courses also have an Advanced Placement (AP) option with a passing AP exam score*

| Courses | Credit Hours |
|---|---|
| **Written Communication:** | |
| ENG 121 – English Composition I | 3 |
| **Mathematics:** | |
| MAT 121 – College Algebra | 4 |
| **Major Courses:** | |
| CSC 119 – Introduction to Programming | 3 |
| CNG 124 – Network I: Network + | 3 |
| CNG 125 – Network II: Network + | 3 |
| **Total Credit Hours at High School** | **16** |

***Remaining Courses Offered Toward Degree at Arapahoe Community College***

| Courses | Credit Hours |
|---|---|
| **Business Courses:** | |
| BUS 217 – Business Communication | 3 |
| BUS 226 – Business Statistics | 3 |
| BUS 121 – Workplace Skills | 1 |
| **Philosophy:** | |
| PHI 113 - Logic (AH-3) | 3 |
| **Computer Network Courses:** | |
| CIS 287 – Cooperative Education (Internship) | 3 |
| CNG 132 - Network Security Fundamentals | 3 |
| CNG 202 - Unix/Linux Server Admin | 3 |
| CNG 253 - Firewalls and How They Work (CNG 132 pre-req) | 3 |
| CNG 256 - Vulnerability Assessment I | 3 |
| CNG 259 - Enterprise Security | 4 |
| **Additional Required Courses:** | |
| CIS 220 - Fundamentals of UNIX (OR CIS 315 - UNIX Operating System: CSU Course) | 3 |
| CIS 232 - Unix Shell Programming OR CSC 160 - Computer Science I | 3 |
| CNG 212 - Configuring Windows Server (OR CIS 401 - Network Systems Administration: CSU Course) | 4 |
| CNG 258 - Digital Forensics (OR CIS 462 - Computer Forensics: CSU Course) | 4 |
| Elective: CIS 461 - Management of IT Security Risk (CSU Course) or CSC 160 - Computer Science I (4 Cr.) | 3 |
| **Total Credit Hours at Arapahoe Community College** | **46** |
| **Total Credit Hours for AAS Degree** | **62** |

**Disclaimer: This academic plan provides guidance and is tentative and subject to change, based on concurrent enrollment classes offered at the high schools and on ACC programs offered in any given academic year. 09/2021**