Partners in Education

Associate of Applied Science (AAS) – Secure Software Development

As our digital reliance grows, the need for computer technology professionals increases. This degree combines skills in computer programming, software assurance, and database development fundamentals. A degree in Secure Software Development prepares students for jobs as Computer Systems Analysts, Software Quality Assurance Engineers and Testers, Computer Programmers, Software Developers, and Information Security Analysts.

The AAS Secure Software Development Degree will be offered at both ACC's Sturm Collaboration Campus in Castle Rock and Littleton Campus. ACC has a transfer articulation with CSU Pueblo, under which students are guaranteed a junior standing with no more than 62 credits to meet the graduation requirements for a B.S. in Computer Information Systems-Software Development Concentration issued by CSU-Pueblo. This B.S. can be attained through a blend of in-person classes at the Sturm Collaboration Campus and on-line classes.

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
Communication Course: COM 115 – Public Speaking	3
Mathematics: MAT 121 – College Algebra	4
Social Science, History, or Arts & Humanities (pick 1 course): HIS 121 – U.S. History to Reconstruction LIT 115 – Introduction to Literature (3 credits) MUS 120 – Music Appreciation (3 credits) SPA 211 – Spanish Language III (3 credits) or SPA 212 – Spanish Language IV (3 credits) FRE 211 – French Language III (3 credits) or FRE 212 – French Language IV (3 credits)	3
Major Courses: CSC 119 – Introduction to Programming	3
Total Credit Hours at High School	**16**

Remaining Courses Offered Toward Degree at Arapahoe Community College

Courses	Credit Hours
Business Courses: BUS 226 – Business Statistics	3
Written Communication: ENG 122 – English Composition II	3
Natural & Physical Science: Choose two Guaranteed Transfer (GT) lab course sequence* and an additional GT lab science course* from the following areas Biology, Chemistry, Environmental Science, Geography, Geology, Meteorology, and Physics.	8
Software Development Courses: CIS 220 - Fundamentals of UNIX CIS 240 - Database Design and Development CIS 243 - Introduction to Structured Query Language (SQL) CIS 268 - Systems Analysis and Design I CNG 101 - Networking Fundamentals CSC 129 - Introduction to Security Coding CSC 160 - Computer Science I* CSC 161 - Computer Science II CSC 225 - Computer Architecture/Assembly Language Programming CSC 245 - Secure Software Development	3 3 3 3 3 3 4 4 4 3
Total Credit Hours at Arapahoe Community College	**47**
Total Credit Hours for AAS Degree	**63**

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