



The Associate of Arts degree (A.A.) at JCCC is a general transfer degree and partners well with the first two years of most bachelor degree programs. Students pursuing the A.A. may select courses that satisfy both the A.A. degree requirements and lower division requirements for a bachelor’s degree at four-year institutions. The elective hours within the A.A. allows students to complete additional general education and lower division courses required for specific majors. The A.A. degree requires completion of 63 credit hours. The maximum number of hours from a community college that will be applied toward a bachelor’s degree at most four-year schools is 64 hours. Meeting with a JCCC counselor is strongly recommended for selection of appropriate courses.

- Bachelor of Science in Cybersecurity is 120 credit hours total.
- Apply at <https://www.ucmo.edu/recruit/>

**CYBERSECURITY REQUIREMENTS**

UCM Course	Hours	JCCC Equivalent	Hours
CS 1100 Computer Programming I	3	CS 205 Concepts of Programming Algorithms using Java	3
CS 1110 Computer Programming II	3	CIS 240 Advanced Topics in Java	4
CS 2300 Data Structures	3	CS 255 Basic Data Structures Using Java	4
CS 2400 Discrete Structures	3	CS 210 Discrete Structures I	3
CS 4600 Database Theory & Applications	3	CIS 260 Database Management	4
NET 1060 Introduction to Networks	3	IT 140 Networking Fundamentals	3
NET 1061 Routers & Switching Essentials	3	IT 145 Routing and Switching Essentials	3
NET 3068 Network Security I	3	IT 201 Network Security Fundamentals	4

**CYBERSECURITY ELECTIVES (6 credits)**

**Electives from the following 6 credits**

UCM Course	Hours	JCCC Equivalent	Hours
CS 3110 Applications Prog. in C# & .NET	3	CS 236 Object-Oriented Programming Using C#	4
CS 4110 Mobile App. Prog. with Android	3	CIS 208 Mobile Application Development	4
CS 4130 Server Side Web Programming	3	CIS 275 Web-Enabled Database Programming	4
NET 2060 Scaling Networks	3	IT 209 Scaling Networks	3
NET 2061 Connecting Networks	3	IT 247 Accessing Wide Area Networks	3

**GENERAL EDUCATION REQUIREMENTS (42 credits)**

<b>UCM Course</b>	<b>Hours</b>	<b>JCCC Equivalent</b>	<b>Hours</b>
COMM 1000 Public Speaking	3	SPD 121 Public Speaking	3
ACST 1300 Basic Statistics	3	MATH 181 Statistics	3
CS 1030 Intro. to Computer Programming OR MATH 1131 Applied Calculus	3	CIS 142 Beginning Prog. using Python OR MATH 231 Business and Applied Calculus I	4 3
ENGL 1020 Comp I	3	ENGL 121 Comp I	3
ENGL 1030 Comp II	3	ENGL 122 Comp II	3
Literature course		Any Literature course	3
General Education Credits		Students with AA meet this requirement (Social Science and Humanities)	24

**FREE ELECTIVES: 12 credits****MINIMUM TOTAL: 120 credits**