

Cybersecurity

University of Central Missouri

Johnson County Community College Transfer Program to the University Central Missouri	Dr. Belinda Copus, School Chair
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Academic Year 2025-2026	www.ucmo.edu/ cybersecurity

Program Description

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 who transfer to UCM with an Associate of Arts degree are considered to have met all 42 hours of UCM's General Education requirements, with the exception of Major/Minor-Required General Education courses and the Constitution Requirement. Visit the UCM General Education Program guide (<https://www.jccc.edu/student-resources/transfer/files/transfer-guides/ucmo-general-ed.pdf>) for details. The elective hours within the A.A. allow students to complete additional general education and lower division courses required for specific majors/minors.

Students who transfer to UCM without a degree (or a degree other than an AA) will have all coursework evaluated on a course-by-course basis. JCCC students not completing the AA degree should visit the UCM General Education Program guide (<https://www.jccc.edu/student-resources/academic-counseling/transfer/files/transfer-guides/ucmo-general-ed.pdf>) for course equivalents and also the UCM catalog for any specific or additional General Education requirements for their UCM program of study.

NOTE: Courses taken to fulfill General Education requirements may not be taken on the pass/fail basis.

Students should be cognizant of UCM's Upper-Level Course Requirement and Residence Requirement, especially if enrolling in more than 60 hours at JCCC. Visit the UCM General (<https://www.jccc.edu/student-resources/academic-counseling/transfer/files/transfer-guides/ucmo-general-ed.pdf>) Education Program guide (<https://www.jccc.edu/student-resources/academic-counseling/transfer/files/transfer-guides/ucmo-general-ed.pdf>) for details.

Courses taken at two-year colleges are not applicable toward UCM Upper-Level Requirement. Students are advised to meet with a UCM advisor before taking additional hours at JCCC.

The Cybersecurity, BS degree requires a minimum of 120 credit hours.

It is the STUDENT'S RESPONSIBILITY to check for updates to all transfer information. This transfer guide is provided as a service and is updated as needed. Degree requirements at the four-year colleges are subject to change by those institutions. To ensure you have the most accurate information about the program, you must meet with an advisor at the transfer institution.

Program Requirements

General Education Requirements with JCCC Equivalents

All students must complete a minimum of 42 credit hours in general education. The following general education courses are required by this major.

Course Code	Course Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
MATH 201	Statistics* +	3	ACST 2310	Statistics Data Analysis	
COMS 121	Public Speaking	3	COMM 1000	Public Speaking	3

Cybersecurity Major Requirements (45 hours) with JCCC Equivalents

Course Code Code	Course Title Title	Course Hours Hours	Transfer Code	Transfer Title	Transfer Hours
Select one of the following:					
CS 134	Programming Fundamentals +	4	CS 1030	Python Programming I	3
IT 202	IT Scripting* +	3	CS 1030	Python Programming I	3
CS 210	Discrete Structures I* +	3	CS 2400	Discrete Structures	3
IT 175	Cybersecurity Fundamentals* +	3	CYBR 1800	Introduction to Cybersecurity	3
IT 230	Linux Fundamentals +	3	CYBR 1500	Command Line Environments	3
IT 238	Digital Forensics* +	3	CYBR 4850	Computer Network Forensics	3
IT 239	Ethical Hacking* +	3	CYBR 4840	Ethical Hacking	3

Choose one of the following areas: Cyber Operations OR Secure Software Development with JCCC Equivalents

Cyber Operations (12 hours)

Course Code Code	Course Title Title	Course Hours Hours	Transfer Code	Transfer Title	Transfer Hours
IT 141	Introduction to Networks +	3	NET 1060	Introduction to Networks	3
IT 150	Switching, Routing, and Wireless Essentials* +	3	NET 1061	Switching/Routing/Wireless Ess	3
IT 204	Enterprise Networking, Security and Automation* +	3	NET 2060	Networking/Security/Automation	3
IT 206	Network Security Fundamentals* +	3	NET 3068	Network Security I	3

Secure Software Development (15 hours)

Course Code Code	Course Title Title	Course Hours Hours	Transfer Code	Transfer Title	Transfer Hours
Select one of the following:					
CS 200	Concepts of Programming Algorithms Using C++* +	4	CS 1100	Computer Programming I	3
CS 201	Concepts of Programming Algorithms using C#* +	4	CS 1100	Computer Programming I	3
CS 205	Concepts of Programming Algorithms using Java* +	4	CS 1100	Computer Programming I	3
CS 236	Object-Oriented Programming Using C#* +	4	CS 1110	Computer Programming II	3
Select one of the following:					
CS 252	Basic Data Structures Using Python* +	4	CS 2300	Data Structures	3

CS 255	Basic Data Structures Using Java* +	4	CS 2300	Data Structures	3
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SE 3910 Software Engineering+ - No JCCC equivalent

SE 4950 Secure Software Engineering+ - No JCCC equivalent

Cybersecurity Electives (6-12 hours) with JCCC Equivalents

Please note courses taken to satisfy the Cyber Operations option or Secure Software Development option do not satisfy Elective hours.

Course Code	Course Title	Course Hours	Transfer Code	Transfer Title	Transfer Hours
Code	Title		Hours		
CIS 204	UNIX Scripting and Utilities* +	3	CS 3500	C and UNIX Environment	3
CIS 240	Advanced Topics in Java* +	4	CS 4120	Adv App Programming in Java	3
CIS 260	Database Management* +	4	CS 4600	Database Theory Applications	3
CIS 275	Web-Enabled Database Programming* +	4	CS 4130	Server Side Web Programming	3

Select one of the following:

CS 200	Concepts of Programming Algorithms Using C++* +	4	CS 1100	Computer Programming I	3
CS 201	Concepts of Programming Algorithms using C#* +	4	CS 1100	Computer Programming I	3
CS 205	Concepts of Programming Algorithms using Java* +	4	CS 1100	Computer Programming I	3
CS 202	Concepts of Programming Algorithms using Python* +	4	CS 2030	Python Programming II	
CS 236	Object-Oriented Programming Using C#* +**	4	CS 1110	Computer Programming II	3
CS 236	Object-Oriented Programming Using C#* +**	4	CS 3110	Apps Programming in C# .NET	2-3

Select one of the following:

CS 252	Basic Data Structures Using Python* +	4	CS 2300	Data Structures	3
CS 255	Basic Data Structures Using Java* +	4	CS 2300	Data Structures	3
IT 141	Introduction to Networks +	3	NET 1060	Introduction to Networks	3
IT 150	Switching, Routing, and Wireless Essentials* +	3	NET 1061	Switching/Routing/Wireless Ess	3
IT 204	Enterprise Networking, Security and Automation* +	3	NET 2060	Networking/Security/Automation	3
IT 206	Network Security Fundamentals* +	3	NET 3068	Network Security I	3



IT 223	Azure Administration* +	3	CS 4610	Intro to Cloud Computing	3
IT 257	Cybersecurity Operations* +	3	NET 2061	Cisco Cyberops Associate	3
Select one of the following:					
IT 271	Information Technology Internship I* +	3	CS 4020	Internship	1-8
IT 272	Information Technology Internship II* +	3	CS 4020	Internship	1-8

- * JCCC Course has a prerequisite or corequisite.
- + Course requires a grade of "C" or better.
- ** CS 236 transfers to UCM as CS 1110 OR CS 3110.

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