



Johnson County Community College
Transfer Program to University of Maryland
Global Campus
Applied Technology, BS
2024-2025 Catalog

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This guide provides transfer information for the [Associate of Applied Science in Computer Information Systems degree](#) at JCCC and the Bachelor of Science in Applied Technology at the University of Maryland Global Campus.

This 120-credit program is unique for its flexibility. In this program, you'll be able to choose courses from among several different computing-related focus areas, including cybersecurity, computer science, information technology, and cyber operations. This curriculum is designed to help you gain practical skills and hands-on experience while customizing your studies to account for personal interest, market needs, or career goals. At the end of this curriculum, you will conclude your self-directed learning journey by enrolling in the applied technology capstone course, where you are asked to come up with a computer-based solution to a real-world business problem. A great fit for mid-career professionals looking to advance their careers, the applied technology bachelor's degree may help you gain the skills and knowledge base you need to pursue your goals.

Admission Requirements:

- Submit Application at <https://apply.umgc.edu/> and pay the nonrefundable application fee of \$50.
- Submit Transcripts: [submit official transcripts from every institution previously attended](#), including high school and college(s).
- Explore Financial Aid & Payment Options: Complete the [Free Application for Federal Student Aid \(FAFSA\)](#) today. Anyone can apply, regardless of income. By turning in your FAFSA, you'll also automatically be considered for more than 100 UMGC scholarships. Review information about [more ways to finance your education](#), including [military and veterans benefits](#) if you qualify. FAFSA school code: 011644.

Degree Requirements:

- A minimum of 120 credit hours are required for a bachelor's degree.
- A minimum of 36 upper-level credit hours are required for the bachelor's degree with a minimum 2.0 ("C") GPA.
- A minimum of 30 UMGC resident credits of which at least 15 must be upper-level.
- At least one-half of credits within the major and minor comprised of:
 - Upper level
 - UMGC resident
 - Traditional
- No course within major or minor below 2.0 GPA ("C").
- Maximum of 70 transfer credits to UMGC from 2-year or community college (actual number of transfer credits dependent on meeting all UMGC bachelor's degree requirements).
- WRTG 112 completed with grade of 1.67 GPA ("C-") or better.

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 up to date information about the program, it is imperative you meet with an advisor at the transfer institution.

Computer Information Systems, AAS with UMGC equivalent courses

UMGC Courses	JCCC Courses	Hrs
First Semester		
CMSC 105 Introduction to Problem-Solving and Algorithm Design (Gen Ed Computing)	CS 134 Programming Fundamentals OR CIS 142 Beginning Programming using Python	4
WRTG Elective (Gen Ed Communications)	ENGL 121 Composition I*	3
MATH 107 College Algebra (Gen Ed Mathematics)	MATH 171 College Algebra* (or any Precalculus/Calculus course)	3
CMST 385^ Principles of Web Design and Technology (major any-discipline; outside of primary focus area)	WEB 110 HTML and CSS	3
Gen Ed Behavioral & Social Science	Social & Behavioral Sciences Elective <i>Note: An Economics (ECON) course is recommended. Transfer students should take a course that transfers to their chosen school.</i>	3
	Total Hours	16
Second Semester		
CMIT Elective	CIS 204 UNIX Scripting and Utilities*	3
CMSC 115 Introductory Programming (1 st major any-level, same primary computing focus area)	CS 200 Concepts of Programming Algorithms Using C++* OR CS 201 Concepts of Programming using C#* OR CS 205 Concepts of Programming using Java*	4
CMIT 265 Fundamentals of Networking (major any-discipline; outside of primary focus area)	IT 141 Introduction to Networks	3
SPCH 125 Introduction to Interpersonal Communication OR SPCH 101 Public Speaking OR SPCH 100 Foundations of Oral Communication OR WRTG 293 Introduction to Professional Writing (Gen Ed Communications)	COMS 120 Interpersonal Communication OR COMS 121 Public Speaking OR COMS 125 Personal Communication OR ENGL 123 Technical Writing I*	3
PHIL 110 Introduction to Philosophy OR PHIL 142 Introduction to Ethical Theory (Gen Ed Arts & Humanities)	Humanities Elective (<i>Note: PHIL 124 Logical and Critical Thinking or PHIL 143 Ethics is recommended. Transfer students should take a course that transfers to their chosen school.</i>)	3
	Total Hours	16
Third Semester		
Elective	Program Elective – see list https://catalog.jccc.edu/degreecertificates/computerinformation/systems/comp-info-systems-aas/	3
IFSM 461^ Systems Analysis and Design (major any-discipline; outside of primary focus area)	CIS 242 Introduction to System Design and Analysis*	3
CMSC 320^ Relational Database Concepts and Applications (elective)	CIS 260 Database Management*	4
CMSC 215 Intermediate Programming (2 nd major any-level; same primary computing focus area)	CS 235 Object-Oriented Programming Using C++* OR CS 236 Object-Oriented Programming Using C#* OR CIS 240 Advanced Topics in Java*	4
CMIT Elective	WEB 114 Web Scripting: JavaScript I*	2
	Total Hours	16
Fourth Semester		
CMST Elective	Program Elective – see list https://catalog.jccc.edu/degreecertificates/computerinformation/systems/comp-info-systems-aas/ <i>Note: WEB 124 is recommended, a minimum of 6 total hours is required for Program Electives.</i>	3
CMSC Elective	CIS 264 Application Development and Programming*	4
CMSC 340^ Web Programming (elective)	CIS 275 Web-Enabled Database Programming*	4
CMSC 315^ Data Structures and Analysis (elective)	CS 250 Basic Data Structures using C++* OR CS 255 Basic Data Structures Using Java* <i>Note: Students who complete CS 202 should contact the JCCC CSIS department chair about taking CS 252 as an alternative.</i>	4
	Total Hours	15

* JCCC course has a prerequisite or corequisite.

^Lower-level course meets content requirement of upper-level course but does not transfer as upper-level.