



CCC ASSOCIATE OF APPLIED SCIENCE IN
COMPUTER INFORMATION SYSTEMS

Students transferring from CCC with a conferred Associate of Arts or Associate of Science degree will have the General Education Requirement (Gen Ed) block of courses met at UMGC (A.A.S. degrees not included). See community college advisor for course sequencing.



UMGC BACHELOR OF SCIENCE IN COMPUTER SCIENCE

UMGC Maryland Community College Alliances

Degree requirements may change based on date of initial enrollment at UMGC.

CREDITS	CARROLL COMMUNITY COLLEGE Requirements for Associate's Degree	UNIVERSITY OF MARYLAND GLOBAL CAMPUS Requirements for Bachelor's Degree
3	CIS 105 Program requirement	CMSC Programming (Gen Ed Computing; related req to the major)
3	CYBR 108 Program requirement	CMIT 202 (elective)
3	CYBR 121 Program requirement	◆ CMIT 265 (required for the major)
3	ENGL 101 Gen Ed requirement	WRITG 112 (Gen Ed Communications; <i>must be completed with 'C-' or</i>
4	MATH 135 recom'd Mathematics Gen Ed requirement	MATH 140 (Gen Ed Mathematics; related requirement to the major)
3	CYBR 122 Program requirement	CMIT 320* (elective)
3	CIS 124 Program requirement	◆ CMSC 310* (required for the major)
3	CIS 137 Program requirement	CMST 385* (elective)
3	COMM 105 Gen Ed requirement	SPCH 101 (Gen Ed Communications)
3	Social and Behavioral Sciences Gen Ed requirement	Gen Ed Behavioral & Social Science
3	CIS 132 Program requirement	◆ CMSC 115 (required for the major)
3	CIS 148 Program requirement	◆ CMSC 320* (required for the major)
3	CIS 234 Program requirement	CMST 488* (elective)
3	Any CIS or CYBR Program elective	Elective
4	Biological and Physical Sciences w/ Lab Gen Ed requirement	Gen Ed Biological & Physical Lab Science
3	CIS 232 Program requirement	◆ CMSC 215 (required for the major)
3	CIS 237 Program requirement	CMST 463* (elective)
2	CIS 271 Program requirement	CMIT elective
3	Any CIS Program elective	Elective
3	ANTH 101, SOC 101, 210, or 215 recom'd Diversity Gen Ed req	Gen Ed Behavioral & Social Science
3	PHIL 105 Gen Ed requirement	PHIL 140 (Gen Ed Arts & Humanities)
64	Total Credits Transferred	Total Credits Transferred
REMAINING REQUIREMENTS FOR BACHELOR'S DEGREE		CREDITS
LIBS 150 Introduction to Research or other Gen Ed credit (to be fulfilled with 1 Gen Ed credit from CCC)		---
PACE 111T Program and Career Exploration in Technology or other PACE 111		3
WRITG 293 Introduction to Professional Writing or other writing (Gen Ed Communications)		3
HIST 125 Technological Transformations or other Gen Ed Arts & Humanities		3
NSCI 100 Introduction to Physical Science or other Gen Ed Biological & Physical Science		3
CMSC 150 Introduction to Discrete Structures (elective; related requirement to the major)		3
MATH 141 Calculus II (Gen Ed Mathematics; related requirement to the major)		4
◆ CMSC 315 Data Structures and Analysis (required for the major)		3UL
◆ CMSC 330 Advanced Programming Languages (required for the major)		3UL
WRITG 393 Advanced Technical Writing or other upper-level writing (Gen Ed Communications)		3UL
◆ CMSC 335 Object-Oriented and Concurrent Programming (required for the major)		3UL
Elective (must be taken upper-level)		3UL
◆ CMSC 345 Software Engineering Principles and Techniques (required for the major)		3UL
Elective (must be taken upper-level)		3UL
◆ CMSC 430 Compiler Theory and Design (required for the major)		3UL
Elective (must be taken upper-level)		3UL
◆ CMSC 451 Design and Analysis of Computer Algorithms (required for the major)		3UL
Elective (must be taken upper-level)		3UL
◆ CMSC 495 Computer Science Capstone (required for the major)		3UL
Elective		1
TOTAL CREDITS REMAINING AT UMGC		56

NOTES: Minimum of 120 credits, including 36 upper-level required for bachelor's degree with minimum 2.0 ('C') grade point average (GPA) / Minimum of 30 UMGC resident credits of which at least 15 must be upper-level / At least one-half of credits within major and minor comprised of: a. upper-level; b. UMGC resident; c. traditional college courses earning a grade / 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) / WRITG 112 completed with grade of 1.67 GPA ('C-') or better / ◆¹ = Course in major at UMGC / *² = Lower-level course meets content requirement of upper-level course but does not transfer as upper-level / UL³ = Upper-level course (numbered 300-499)

¹ ◆ Course in major at UMGC

² * Lower-level course meets content requirement of upper-level course but does not transfer as upper-level

³ UL Upper-level course (numbered 300-499)