



### CCC ASSOCIATE OF ARTS IN COMPUTER SCIENCE

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.



UNIVERSITY OF MARYLAND  
GLOBAL CAMPUS

### 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
3-4	CMSC 201 or CIS 132 Program requirement	◆ CMSC 115 (required for the major)
4	MATH 135 Gen Ed requirement	MATH 140 (Gen Ed Mathematics; related requirement to the major)
3	ENGL 101 Gen Ed requirement	WRTG 112 (Gen Ed Communications; <i>must be completed with 'C-' or</i>
3	Social and Behavioral Sciences Gen Ed requirement	Gen Ed Behavioral & Social Science
3-4	CMSC 202 or CIS 232 Program requirement	◆ CMSC 215 (required for the major)
4	MATH 136 Program requirement	MATH 141 (elective; related requirement to the major)
3	ENGL 102 Gen Ed requirement	ENGL 102 (Gen Ed Communications)
3	Arts and Humanities & Diversity recom'd Gen Ed requirement	Gen Ed Arts & Humanities
3	CMSC 203 Program requirement	CMSC 150 (Gen Ed Computing; related requirement to the major)
4	Biological and Physical Sciences Gen Ed requirement	Gen Ed Biological & Physical Lab Science
3	Social and Behavioral Sciences Gen Ed requirement	Gen Ed Behavioral & Social Science
3	Gen Ed elective	Gen Ed Communications (to honor Gen Ed block)
3	Arts and Humanities Gen Ed requirement	Gen Ed Arts & Humanities
3	Biological and Physical Sciences Gen Ed requirement	Gen Ed Biological & Physical Science
3	CIS 124 recom'd Program elective	◆ CMSC 310* (required for the major)
3	Elective	Elective
3	Elective	Elective
3	Elective	Elective
3	Elective	Elective
60-62	<b>Total Credits Transferred</b>	<b>Total Credits Transferred</b>

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
◆ CMIT 265 Fundamentals of Networking (required for the major)	3
Elective	3
◆ CMSC 315 Data Structures and Analysis (required for the major)	3UL
Elective	3
◆ CMSC 320 Relational Database Concepts and Applications (required for the major)	3UL
Elective	3
◆ CMSC 330 Advanced Programming Languages (required for the major)	3UL
WRTG 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	3
◆ 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
Elective (must be taken upper-level)	3UL
◆ CMSC 451 Design and Analysis of Computer Algorithms (required for the major)	3UL
Elective	3
◆ CMSC 495 Computer Science Capstone (required for the major)	3UL
Elective	1-3
<b>TOTAL CREDITS REMAINING AT UMGC</b>	<b>58-60</b>

**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) / WRTG 112 completed with grade of 1.67 GPA (C-) or better / ◆<sup>1</sup> = Course in major at UMGC / \*<sup>2</sup> = Lower-level course meets content requirement of upper-level course but does not transfer as upper-level / UL<sup>3</sup> = Upper-level course (numbered 300-499)

<sup>1</sup> ◆ Course in major at UMGC

<sup>2</sup> \* Lower-level course meets content requirement of upper-level course but does not transfer as upper-level

<sup>3</sup> UL Upper-level course (numbered 300-499)