



**MC ASSOCIATE OF ARTS IN COMPUTER SCIENCE AND TECHNOLOGIES  
COMPUTER SCIENCE CONCENTRATION**

Students transferring from MC 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**

**CATALOG YEAR:  
2022-2023**

**UMGC BACHELOR OF SCIENCE IN COMPUTER SCIENCE**

<http://www.umgc.edu/transfers-and-credits/community-college-alliances/maryland-community-college-alliances.cfm>

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

CREDITS	MONTGOMERY COLLEGE Requirements for Associate's Degree	UNIVERSITY OF MARYLAND GLOBAL CAMPUS Requirements for Bachelor's Degree
3	ENGL 101 or ENGL 101A recom'd elective ^	WRWG elective (Gen Ed Communications)
4	MATH 181 Mathematics Foundation Gen Ed requirement	MATH 140 (Gen Ed Mathematics; related requirement to the major)
3	CMSC 140 Program requirement	CMIS 102 (Gen Ed Computing; related requirement to the major)
3	Arts Distribution Gen Ed requirement	Gen Ed Arts & Humanities
3	Behavioral and Social Sciences Distribution Gen Ed req ^^	Gen Ed Behavioral & Social Science
3	ENGL 102 recom'd English Foundation Gen Ed requirement	WRWG 112 (Gen Ed Communications; <i>must be completed with C- or better</i> )
4	CMSC 203 Program requirement	CMIS elective
4	MATH 182 Math Foundation requirement	MATH 141 (elective; related requirement to the major)
3	Arts or Humanities Distribution or Health Gen Ed req ††	Elective
4	CMSC 204 Program requirement	◆ CMSC 350* (required for the major)
3	Humanities Distribution Gen Ed requirement	Gen Ed Arts & Humanities
4	Natural Sciences Distribution w/ Lab Gen Ed requirement	Gen Ed Biological & Physical Lab Science
3	CMSC 201 recom'd Program elective †	◆ CMIS 141 (required for the major)
3	COMM 108 or COMM 112 Gen Ed requirement	SPCH 100 or SPCH elective (Gen Ed Communications)
4	CMSC 207 Program requirement	CMSC 150 (elective; related requirement to the major)
3	Behavioral and Social Sciences Distribution Gen Ed req ^^	Gen Ed Behavioral & Social Science
3	Natural Sciences Distribution w/ out Lab Gen Ed requirement	Gen Ed Biological & Physical Science
3	CMSC 214 recom'd Program elective †	◆ CMIS 242 (required for the major)
<b>60</b>	<b>Total Credits Transferred</b> See next page for MC Notes	

**REMAINING UMG C DEGREE REQUIREMENT RECOMMENDED SEQUENCE UPON TRANSFER WITH ASSOCIATE'S DEGREE**

LIBS 150 Introduction to Research or other Gen Ed course (to be fulfilled with 1 credit of CMSC 203 from MC)	---
PACE 111T Program and Career Exploration in Technology or other PACE 111	3
◆ CMIS 310 Computer Systems and Architecture (required for the major)	3UL
Elective	3
◆ SDEV 300 Building Secure Python Applications (required for the major)	3UL
Elective	3
◆ CMSC 330 Advanced Programming Languages (required for the major)	3UL
WRWG 393 Advanced Technical Writing or other upper-level writing (Gen Ed Communications)	3UL
Elective	3
◆ CMSC 335 Object-Oriented and Concurrent Programming (required for the major)	3UL
Elective (must be taken upper-level)	3UL
◆ CMIS 330 Software Engineering Principles and Techniques (required for the major)	3UL
Elective	3
◆ CMIS 320 Relational Database Concepts and Applications (required for the major)	3UL
Elective	3
◆ 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	3
◆ CMSC 495 Current Trends and Projects in Computer Science (required capstone for the major)	3UL
Elective	3
<b>TOTAL CREDITS REMAINING AT UMG C</b>	<b>60</b>

**NOTES:** Minimum of 120 credits, including 36 upper-level (courses numbered 300-499) required for bachelor's degree with minimum 2.0 (C) grade point average (GPA) / No course within major or minor below 2.0 GPA / At least one-half of credits within major and minor comprised of: a. upper-level; b. UMG C resident; c. traditional college courses earning a grade / Maximum of 70 transfer credits to UMG C from 2-year or community college (actual number of transfer credits dependent on meeting all UMG C bachelor's degree requirements) / WRWG 112 completed with grade of 1.67 GPA (C-) or better / ◆ = Denotes course in major at UMG C / \* = Denotes lower-level course meets content requirement of upper-level course but does not transfer as upper-level / UL = Denotes upper-level course

**MONTGOMERY COLLEGE NOTES:**

- ^ ENGL 101/ENGL 101A, if needed for ENGL 102/ENGL 103, or elective. Please consult an advisor or transfer institution for assistance with course selection.
- ^^ Behavioral and Social Science Distribution (BSSD) courses must come from different disciplines.
- † Program elective courses are any CMSC or DATA course, 200 level World language course, MATH 117, MATH 165, MATH 280, MATH 282, MATH 284. See department advisor for elective or equivalent course substitution if appropriate. Not all CMSC courses transfer to all institutions. Please consult an advisor or the transfer institution before selecting program elective courses.
- †† Please consult an advisor or the transfer institution before selecting General Education institutional requirements (GEIR).