



CSM ASSOCIATE OF SCIENCE IN COMPUTER SCIENCE



**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 the date of initial enrollment at UMGC.

Students transferring from CSM with a conferred Associate degree should see a community college advisor for course sequencing.

CREDIT S	COLLEGE OF SOUTHERN MARYLAND Requirements for Associate's Degree	UNIVERSITY OF MARYLAND GLOBAL CAMPUS Requirements for Bachelor's Degree
3	ENG 1010 Gen Ed requirement (<i>completed with 'C' or better</i>)	WRTG 112 (Gen Ed Communications)
4	MTH 1200 Gen Ed requirement	MATH 140 (Gen Ed Mathematics; related requirement to the major)
3	CSC 1110 Program requirement	CMIS 102 (Gen Ed Computing; related requirement to the major)
4	Biological/Physical Lab Sciences Gen Ed requirement	Gen Ed Biological & Physical Lab Science
3	ENG 1020 Gen Ed requirement	ENGL 102 (Gen Ed Communications)
4	MTH 1210 Gen Ed requirement	MATH 141 (elective; related requirement to the major)
4	CSC 2591 Program requirement	◆ CMIS 141 (required for the major)
3	Biological/Physical Sciences Gen Ed requirement	Gen Ed Biological & Physical Science
3	Social/Behavioral Sciences Gen Ed requirement	Gen Ed Behavioral & Social Science
4	CSC 2592 Program requirement	◆ CMIS 242 (required for the major)
4	CSC 2750 Program requirement	◆ CMIS 310* (required for the major)
3	MTH 2500 Program requirement	CMSC 150 (Gen Ed Arts/Hum for Gen Ed block; related req to the major)
3	Approved Elective	Elective
3	Communications Gen Ed requirement	Gen Ed Communications
4	CSC 2740 Program requirement	◆ CMSC 350* (required for the major)
3-4	Technical elective	Elective
3	Social/Behavioral Sciences Gen Ed requirement	Gen Ed Behavioral & Social Science
3	Arts/Humanities Gen Ed requirement	Gen Ed Arts & Humanities
61-62	Total Credits Transferred	
REMAINING UMGC DEGREE REQUIREMENT RECOMMENDED SEQUENCE UPON TRANSFER WITH ASSOCIATE'S DEGREE		
	LIBS 150 Introduction to Research or other Gen Ed course (will be fulfilled with 1 credit of CSC 2750 from CSM)	---
	PACE 111T Program and Career Exploration in Technology or other PACE 111	3
	◆ SDEV 300 Building Secure Python 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
	Elective	3
	◆ CMSC 335 Object-Oriented and Concurrent Programming (required for the major)	3UL
	Elective	3
	◆ 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 (must be taken upper-level)	3UL
	◆ CMSC 430 Compiler Theory and Design (required for the major)	3UL
	Elective	3
	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
	Elective	3
	◆ CMSC 495 Current Trends and Projects in Computer Science (required capstone for the major)	3UL
	Elective	1-2
TOTAL CREDITS REMAINING AT UMGC		58-59
<p>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. UMGC resident; c. traditional college courses earning a grade / 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 / ◆ = Denotes course in major at UMGC / * = Denotes lower-level course meets content requirement of upper-level course but does not transfer as upper-level / UL = Denotes upper-level course</p>		