



## CECIL COLLEGE ASSOCIATE OF SCIENCE IN COMPUTER SCIENCE

Students transferring from Cecil College 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.

CREDIT S	CECIL COLLEGE Requirements for Associate's Degree	UNIVERSITY OF MARYLAND GLOBAL CAMPUS Requirements for Bachelor's Degree
3	CSC 109 Program requirement	CMSC programming (Gen Ed Computing; related req to the major)
3	CSC 104 Program requirement	CMSC elective
3	EGL 101 Gen Ed requirement	WRTG 112 (Gen Ed Communications; <i>must be completed with 'C-' or</i>
4	MAT 191 Gen Ed requirement	MATH 115 (elective)
4	BIO, ENV, CHM, PSC, or PHY recom'd Science w/ Lab Gen Ed	Gen Ed Biological & Physical Lab Science
4	MAT 201 Program requirement	MATH 140 (Gen Ed Mathematics; related requirement to the major)
3	EGL 102 Gen Ed requirement	ENGL 102 (Gen Ed Communications)
3	Social Science Gen Ed elective	Gen Ed Behavioral & Social Science
4	BIO, ENV, CHM, PSC, or PHY recom'd Science w/ Lab Gen Ed	Gen Ed Biological & Physical Science
3	CSC 205 Program requirement	♦ CMSC 115 (required for the major)
4	MAT 202 Program requirement	MATH 141 (elective; related requirement to the major)
3	MAT 236 Program requirement	CMSC 150 (elective; related requirement to the major)
3	Arts and Humanities Gen Ed elective	Gen Ed Arts & Humanities
4	CSC 218 Program requirement	♦ CMSC 215 (required for the major)
4	MAT 240 Program requirement	MATH 240 (Gen Ed Arts & Humanities to fulfill Gen Ed block)
3	SPH 121 Gen Ed requirement	SPCH 125 (Gen Ed Communications)
2	PHE or CSC elective	Elective
3	Social Science Gen Ed elective	Gen Ed Behavioral & Social Science
<b>60</b>	<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 Cecil College)		---
PACE 111T Program and Career Exploration in Technology or other PACE 111		3
♦ CMSC 310 Computer Systems and Architecture (required for the major)		3UL
Elective		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 (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
♦ 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		3
<b>TOTAL CREDITS REMAINING AT UMGC</b>		<b>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)