

NOVA ASSOCIATE OF SCIENCE IN COMPUTER SCIENCE
UMGC BACHELOR OF SCIENCE IN COMPUTER SCIENCE

See community college advisor for course sequencing. Degree requirements may change based on date of initial enrollment at UMGC.

UMGC National Community College Alliances

CREDITS	NORTHERN VIRGINIA COMMUNITY COLLEGE Requirements for Associate's Degree	UNIVERSITY OF MARYLAND GLOBAL CAMPUS Requirements for Bachelor's Degree
3	CSC 221 Program requirement	♦ CMSC 115 (required for the major)
3	HIS Gen Ed elective	Elective
5	MTH 167 Gen Ed Mathematics requirement	MATH 115 (elective)
3	ENG 111 Gen Ed requirement	WRG 111 (Gen Ed Communications)
1	SDV 100 or SDV 101 Institutional requirement	Elective
4	CSC 222 Program requirement	♦ CMSC 215 (required for the major)
3	ENG 112 Gen Ed requirement	WRG 112 (Gen Ed Communications; <i>must be completed with C- or better</i>)
4	MTH 263 Program requirement	MATH 140 (Gen Ed Mathematics; related requirement to the major)
3	Humanities/Fine Arts Gen Ed elective	Gen Ed Arts & Humanities
3	CSC 208 or MTH 288 Program requirement	CMSC 150 (Gen Ed Computing; related requirement to the major)
4	CSC 223 Program requirement	♦ CMSC 315* (required for the major)
4	MTH 264 Program requirement	MATH 141 (elective; related requirement to the major)
4	Physical or Life Science w/ Lab Gen Ed elective	Gen Ed Biological & Physical Lab Science
3	CSC 205 recom'd Program elective	♦ CMSC 310* (required for the major)
3	Humanities/Fine Arts Gen Ed elective	Gen Ed Arts & Humanities
4	Physical or Life Science w/ Lab Gen Ed elective	Gen Ed Biological & Physical Science
3	Social/Behavioral Sciences Gen Ed elective (not HIS)	Gen Ed Behavioral & Social Science
3	CST 100 or CST 110 recom'd Approved elective	SPCH 100 or SPCH elective (Gen Ed Communications)
60	Total Credits Transferred	Total Credits Transferred

REMAINING REQUIREMENTS FOR BACHELOR'S DEGREE	CREDITS
LIBS 150 Introduction to Research or any Gen Ed credit (to be fulfilled with 1 Gen Ed credit from NOVA)	---
PACE 111T Program and Career Exploration in Technology or any PACE 111	3
ECON 103 Economics in the Information Age or any Gen Ed Behavioral & Social Science	3
♦ CMIT 265 Fundamentals of Networking (required for the major)	3
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
Elective	3
WRG 393 Advanced Technical Writing or any upper-level writing (Gen Ed Communications)	3UL
Elective	3
♦ 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	3
♦ CMSC 430 Compiler Theory and Design (required for the major)	3UL
Elective	3
♦ 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
TOTAL CREDITS REMAINING AT UMGC	60

NOTES: Minimum of 120 credits, including 30 with UMGC of which at least 15 must be upper-level (courses numbered 300-499), are required for the bachelor's degree with a UMGC grade point average (GPA) of 2.0 (C) or higher / At least one-half of the credits within the major and minor must be comprised of: a. traditional college courses earning a grade (except for the CJLE major); b. UMGC resident coursework (except for the APTC, CJLE, and GECU majors, which require only the major capstone as UMGC resident credit) / No course within the major or minor below the grade of C (2.0) / UMGC does not accept grades below a C (2.0) in transfer from schools outside of the University System of Maryland and the Maryland community colleges (except WRG 112 which must be completed with a grade of C- (1.67) or better from all schools) / Maximum of 70 transfer credits to UMGC from two-year or community colleges & maximum of 90 transfer credits from all sources combined (actual number of transfer credits dependent on meeting all UMGC bachelor's degree requirements) / ♦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)