NOVA | Northern Virginia Community College

UNIVERSITY OF MARYLAND GLOBAL CAMPUS

NOVA ASSOCIATE 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 BACHELOR OF SCIENCE IN COMPUTER SCIENCE

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 105 (Gen Ed Computing; related requirement to the major)
3	HIS Gen Ed elective	Gen Ed Arts & Humanities
5	MTH 167 Gen Ed requirement	MATH 115 (elective)
3	ENG 111 Gen Ed requirement	WRTG 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	WRTG 112 (Gen Ed Communications; *must be completed with 'C-' or better*)
4	MTH 263 recom'd Program requirement	MATH 140 (Gen Ed Mathematics; related requirement to the major)
3	Humanities/Fine Arts Gen Ed elective	Gen Ed Arts & Humanities
4	CSC 223 Program requirement	♦ CMSC 315* (required for the major)
3	CSC 208 or MTH 288 Program requirement	CMSC 150 (elective; related requirement to 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	Elective
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
4	CSC 201 recom'd Technical elective	♦ CMSC 115 (required for the major)
61	**Total Credits Transferred**	**Total Credits Transferred**

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 NOVA)	---
PACE 111T Program and Career Exploration in Technology or other PACE 111	3
SPCH 100 Foundations of Oral Communication or other Gen Ed Communications	3
ECON 103 Economics in the Information Age or other 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
WRTG 393 Advanced Technical Writing or other upper-level writing (Gen Ed Communications)	3UL
Elective (must be taken upper-level)	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
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	2
TOTAL CREDITS REMAINING AT UMGC	**59**

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 **/** ♦[1] = Course in major at UMGC **/** ✱[2] = Lower-level course meets content requirement of upper-level course but does not transfer as upper-level **/** **UL**[3] = Upper-level course (numbered 300-499)