

This guide aligns course articulations from a Montgomery College (MC) associate's degree to a UMGC bachelor's degree and additional bachelor's degree requirements for Academic Catalog year 2025-2026. See a community college advisor for associate degree course sequencing. UMGC degree requirements and course articulations may change based on your initial UMGC enrollment term. UMGC offers multi-term registrations in 8-week sessions. In your transfer year, meet with a UMGC advisor to plan your UMGC schedule.

CREDITS	MC AA IN COMPUTER SCIENCE AND TECHNOLOGIES, INFORMATION SCIENCES AND SYSTEMS AOC	UMGC BS IN COMPUTER SCIENCE Requirements for Bachelor's Degree
3	ENGL 101 <i>or</i> ENGL 101A recom'd elective ^{AA}	WRTG elective (Gen Ed Communications)
4	MATH 181 recom'd Mathematics Foundation Gen Ed req.	+ MATH 140 (Gen Ed Mathematics)
3	CMSC 110 Program requirement	IFSM 201 (elective)
3	Arts Distribution Gen Ed requirement	Gen Ed Arts & Humanities
3	Behavioral and Social Sciences Distribution Gen Ed req. ^{AAA}	Gen Ed Behavioral & Social Science
3	ENGL 102 <i>or</i> ENGL 103 recom'd English Found. Gen Ed req.	WRTG 112 (Gen Ed Communications; <i>must be completed with C- or better</i>)
3	CMSC 140 Program requirement	+ CMSC 105 (Gen Ed Computing)
4	MATH 182 recom'd Program elective ^t	+ MATH 141 (elective)
3	Arts Distribution <i>or</i> Humanities Dist. <i>or</i> Health Gen Ed req.	Elective
4	Natural Sciences Distribution w/ Lab Gen Ed requirement	Gen Ed Biological & Physical Lab Science
3	CMSC 243 Program requirement	IFSM 461* (elective)
3	Behavioral and Social Sciences Distribution Gen Ed req. ^{AAA}	Gen Ed Behavioral & Social Science
3	Humanities Distribution Gen Ed requirement	Gen Ed Arts & Humanities
3	CMSC 201 recom'd Program elective ^{tt}	◆ CMSC 115 (required for the major)
4	CMSC 203 recom'd Program elective ^{tt}	◆ CMSC 215 (required for the major)
3	COMM 108 <i>or</i> COMM 112 Gen Ed requirement	SPCH 100 <i>or</i> SPCH elective (Gen Ed Communications)
4	CMSC 207 recom'd Program elective ^{tt}	+ CMSC 150 (elective)
4	CMSC 204 recom'd Program elective ^{tt}	◆ CMSC 315* (required for the major)
3	Natural Sciences Distribution Gen Ed requirement	Gen Ed Biological & Physical Science
62	Estimated Credits Transferred	Estimated Credits Transferred

REMAINING BACHELOR'S DEGREE REQUIREMENTS (recommended sequence)	CREDITS
LIBS 150 Introduction to Research or any Gen Ed credit (to be fulfilled with 1 Gen Ed credit from MC)	--
PACE 111T Program and Career Exploration in Technology or any 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
◆ 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
WRTG 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	1
ESTIMATED CREDITS REMAINING AT UMGC	58

NOTES: Minimum of 120 credits, including 30 with University of Maryland Global Campus (UMGC) of which at least 15 must be upper-level, are required for the bachelor's degree with a UMGC grade point average (GPA) of 2.0 (C) or higher / UMGC does not accept grades below C (2.0) in transfer from schools outside the University System of Maryland and Maryland community colleges (except WRTG 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 and maximum of 90 transfer credits from all sources combined (actual number of transfer credits dependent on meeting all UMGC bachelor's degree requirements) / ◆¹ = Major core, major elective, or capstone: all courses within the major require a grade of C (2.0) or higher, and all majors (except APTC, GECU, and CJLE, which require only the capstone as UMGC graded coursework) must complete at least half of these as 1) traditional college courses earning a grade and 2) UMGC resident credit / +² = Business core course or major related requirement / *³ = Lower-level course meets content requirement of upper-level course but does not transfer as upper-level / UL⁴ = Upper-level course (numbered 300-499) / Visit [UMGC Maryland Community College Alliances](https://www.umgc.edu/maryland-community-college-alliances) to learn more!

¹ ◆ Major core, major elective, or capstone

² + Business core course or major related requirement

³ * Lower-level course meets content requirement of upper-level course but does not transfer as upper-level

⁴ UL Upper-level course (numbered 300-499)

MONTGOMERY COLLEGE NOTES:

- ⁵ ^{AA} = ENGL 101/ENGL 101A, if needed for ENGL 102/ENGL 103, or elective.
- ⁶ ^{AAA} = Behavioral and Social Science Distribution (BSSD) courses must come from different disciplines.
- ⁷ ^{††} = List of program electives: CMSC, DATA, NWIT, CMAP; TECH 190, 200-level TECH courses; ACCT 221, ACCT 222, BSAD 101, ECON 201, MATH 165, MATH 150 or MATH 181, MATH 182, MATH 117 or BSAD 210; MGMT 101, MGMT 211, PSYC 100. Four credit courses can be used to satisfy program electives.
- AA and AS programs require one global and cultural perspectives (GCP) General Education course.
- For the Natural Sciences Distribution and Arts Distribution requirement, please see the full list of other acceptable General Education courses found under the General Education Program Requirements and Course Lists section of [MC Acceptable General Education Courses](#)

⁵ ^{AA} ENGL 101/ENGL 101A, if needed for ENGL 102/ENGL 103, or elective.

⁶ ^{AAA} Behavioral and Social Science Distribution (BSSD) courses must come from different disciplines.

⁷ ^{††} List of program electives: CMSC, DATA, NWIT, CMAP; TECH 190, 200-level TECH courses; ACCT 221, ACCT 222, BSAD 101, ECON 201, MATH 165, MATH 150 or MATH 181, MATH 182, MATH 117 or BSAD 210; MGMT 101, MGMT 211, PSYC 100. Four credit courses can be used to satisfy program electives.