

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 COMPUTER SCIENCE AREA OF CONCENTRATION	UMGC BS IN COMPUTER SCIENCE Requirements for Bachelor's Degree
3	ENGL 101 <i>or</i> ENGL 101A recom'd elective**	WRTG elective (Gen Ed Communications)
4	MATH 181 Mathematics Foundation Gen Ed requirement	+ MATH 140 (Gen Ed Mathematics)
3	CMSC 140 Program requirement	+ CMSC 105 (Gen Ed Computing)
3	Arts Distribution Gen Ed requirement	Gen Ed Arts & Humanities
3	Behavioral and Social Sciences Distribution Gen Ed req***	Gen Ed Behavioral & Social Science
3	ENGL 102 <i>or</i> ENGL 103 recom'd English Foundation req	WRTG 112 (Gen Ed Communications; <i>must be completed with C- or better</i>)
4	CMSC 203 Program requirement	◆ CMSC 215 (required for the major)
4	MATH 182 Program requirement	+ MATH 141 (elective)
3	Arts <i>or</i> Humanities Distribution <i>or</i> Health Gen Ed req‡	Elective
4	CMSC 204 Program requirement	◆ CMSC 315* (required for the major)
3	Humanities Distribution Gen Ed requirement	Gen Ed Arts & Humanities
4	Natural Sciences Distribution w/ Lab Gen Ed requirement	Gen Ed Biological & Physical Lab Science
3	CMSC 201 recom'd Program elective**	◆ CMSC 115 (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 Program requirement	+ CMSC 150 (elective)
3	Behavioral and Social Sciences Distribution Gen Ed req***	Gen Ed Behavioral & Social Science
3	Natural Sciences Distribution w/ out Lab Gen Ed requirement	Gen Ed Biological & Physical Science
3	CMSC 214 recom'd Program elective**	CMSC 440* (elective)
60	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
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 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
ESTIMATED CREDITS REMAINING AT UMGC	60

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!

MONTGOMERY COLLEGE NOTES:

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)

- ⁵ = ENGL 101/ENGL 101A, if needed for ENGL 102/ENGL 103, or elective. Please consult an advisor or transfer institution for assistance with course selection.
- ⁶ = Behavioral and Social Science Distribution (BSSD) courses must come from different disciplines.
- ⁷ = Program elective courses are any CMSC or DATA course, 200 World language course, MATH 117, MATH 165, MATH 280, MATH 282, MATH 284. Please consult an advisor or the transfer institution before selecting program elective courses.
- ⁸ = Please consult an advisor or the transfer institution before selecting General Education institutional requirements (GEIR).
- 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 = ENGL 101/ENGL 101A, if needed for ENGL 102/ENGL 103, or elective.

⁶ = Behavioral and Social Science Distribution (BSSD) courses must come from different disciplines.

⁷ = Program elective courses are any CMSC or DATA course, 200 World language course, MATH 117, MATH 165, MATH 280, MATH 282, MATH 284. Please consult an advisor or the transfer institution before selecting program elective courses.

⁸ = Please consult an advisor or the transfer institution before selecting General Education institutional requirements (GEIR).