

This guide aligns course articulations from a College of Southern Maryland (CSM) 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	CSM AS IN COMPUTER SCIENCE Requirements for Associate's Degree	UMGC BS IN DATA SCIENCE Requirements for Bachelor's Degree
3	ENG 1010 Gen Ed req. <i>(must be completed with C or better)</i>	WRTG 112 (Gen Ed Communications)
3	CSC 1100 Program requirement	CMSC 105 (elective)
4	MTH 1200 Gen Ed requirement	+ MATH 140 (Gen Ed Mathematics)
3	ITS 1055 Program requirement	IFSM 201 (elective)
3	ENG 1020 Gen Ed requirement	ENGL 102 (Gen Ed Communications)
4	MTH 1210 Program requirement	MATH 141 (elective)
4	CSC 2591 Program requirement	CMSC 115 (elective)
4	Biological/Physical Sciences w/ Lab Gen Ed requirement	Gen Ed Biological & Physical Lab Science
3	Social/Behavioral Sciences Gen Ed requirement (not COM)	Gen Ed Behavioral & Social Science
4	CSC 2592 Program requirement	CMSC 215 (elective)
4	CSC 2750 Program requirement	CMSC 310* (elective)
3	MTH 2500 Program requirement	CMSC 150 (elective)
3	MTH 1015 recom'd Technical elective	♦ STAT 200 (required for the major)
3	Communications Gen Ed requirement	Gen Ed Communications
4	CSC 2740 Program requirement	CMSC 451* (elective)
3	PHL 1150 recom'd Technical elective	PHIL elective (Gen Ed Arts & Humanities)
3	Soc./Behavioral Sci. & Cultural/Global Awareness Gen Ed req.	Gen Ed Behavioral & Social Science
3	Biological/Physical Sciences Gen Ed requirement	Gen Ed Biological & Physical Science
61	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 CSM)		---
PACE 111T Program and Career Exploration in Technology or any PACE 111		3
+ DATA 200 Data Literacy Foundations (Gen Ed Computing)		3
♦ DATA 230 Mathematics for Data Science (required for the major)		3
♦ DATA 300 Foundations of Data Science (required for the major)		3UL
HIST 125 Technological Transformations or any Gen Ed Arts & Humanities		3
♦ CSIA 300 Cybersecurity for Leaders and Managers (required for the major)		3UL
♦ DATA 320 Introduction to Data Analytics (required for the major)		3UL
Elective		3
♦ DATA 330 Business Intelligence and Data Management (required for the major)		3UL
♦ DATA 335 Data Visualization (required for the major)		3UL
WRTG 393 Advanced Technical Writing or any upper-level writing (Gen Ed Communications)		3UL
♦ DATA 430 Foundations of Machine Learning (required for the major)		3UL
♦ DATA 440 Advanced Machine Learning (required for the major)		3UL
Elective		3
♦ DATA 445 Advanced Data Science (required for the major)		3UL
♦ DATA 450 Data Ethics (required for the major)		3UL
Elective		3
♦ DATA 460 Artificial Intelligence Solutions (required for the major)		3UL
♦ DATA 495 Data Science Capstone (required for the major)		3UL
Elective		2
ESTIMATED CREDITS REMAINING AT UMGC		59

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](#) 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)