



CSM ASSOCIATE OF SCIENCE IN COMPUTER SCIENCE



**UNIVERSITY OF MARYLAND
GLOBAL CAMPUS**

**CATALOG YEAR:
2022-2023**

UMGC BACHELOR OF SCIENCE IN DATA SCIENCE

<http://www.umgc.edu/transfers-and-credits/community-college-alliances/maryland-community-college-alliances.cfm>

Degree requirements may change based on the date of initial enrollment at UMGC.

Students transferring from CSM with a conferred Associate degree should see a community college advisor for course sequencing.

CREDIT S	COLLEGE OF SOUTHERN MARYLAND Requirements for Associate's Degree	UNIVERSITY OF MARYLAND GLOBAL CAMPUS Requirements for Bachelor's Degree
3	ENG 1010 Gen Ed requirement (<i>completed with 'C' or better</i>)	WRTG 112 (Gen Ed Communications)
4	MTH 1200 Gen Ed requirement	MATH 140 (Gen Ed Mathematics; related requirement to the major)
3	CSC 1110 Program requirement	CMIS 102 (elective)
4	Biological/Physical Lab Sciences Gen Ed requirement	Gen Ed Biological & Physical Lab Science
3	ENG 1020 Gen Ed requirement	ENGL 102 (Gen Ed Communications)
4	MTH 1210 Gen Ed requirement	MATH 141 (Gen Ed Arts & Humanities to honor Gen Ed block)
4	CSC 2591 Program requirement	CMIS 141 (elective)
3	Biological/Physical Sciences Gen Ed requirement	Gen Ed Biological & Physical Science
3	Social/Behavioral Sciences Gen Ed requirement	Gen Ed Behavioral & Social Science
4	CSC 2592 Program requirement	CMIS 242 (elective)
4	CSC 2750 Program requirement	CMIS 310* (elective)
3	MTH 2500 Program requirement	CMSC 150 (elective)
3	MTH 1015 recom'd elective	◆ STAT 200 (required for the major)
3	Communications Gen Ed requirement	Gen Ed Communications
4	CSC 2740 Program requirement	CMSC 350* (elective)
3-4	ITS 2480 recom'd Technical elective	◆ DATA 320 (required for the major)
3	Social/Behavioral Sciences Gen Ed requirement	Gen Ed Behavioral & Social Science
3	Arts/Humanities Gen Ed requirement	Gen Ed Arts & Humanities
61-62	Total Credits Transferred	
REMAINING UMGC DEGREE REQUIREMENT RECOMMENDED SEQUENCE UPON TRANSFER WITH ASSOCIATE'S DEGREE		
	LIBS 150 Introduction to Research or other Gen Ed course (will be fulfilled with 1 credit of CSC 2750 from CSM)	---
	PACE 111T Program and Career Exploration in Technology or other PACE 111	3
	DATA 200 Data Literacy Foundations (Gen Ed Computing; related requirement to the major)	3
	◆ DATA 300 Foundations of Data Science (required for the major)	3UL
	◆ CSIA 300 Cybersecurity for Leaders and Managers (required for the major)	3UL
	Elective	3
	◆ IFSM 330 Business Intelligence and Data Analytics (required for the major)	3UL
	◆ DATA 335 Data Visualization (required for the major)	3UL
	WRTG 393 Advanced Technical Writing or any other upper-level writing (Gen Ed Communications)	3UL
	◆ DATA 430 Foundations of Machine Learning (required for the major)	3UL
	Elective	3
	◆ DATA 440 Advanced Machine Learning (required for the major)	3UL
	Elective	3
	◆ DATA 445 Advanced Data Science (required for the major)	3UL
	Elective (must be taken upper-level)	3UL
	◆ DATA 450 Data Ethics (required for the major)	3UL
	Elective (must be taken upper-level)	3UL
	◆ DATA 460 Artificial Intelligence Solutions (required for the major)	3UL
	Elective	3
	◆ DATA 495 Data Science Capstone (required capstone for the major)	3UL
	Elective	1-2
TOTAL CREDITS REMAINING AT UMGC		58-59
<p>NOTES: Minimum of 120 credits, including 36 upper-level (courses numbered 300-499) required for bachelor's degree with minimum 2.0 (C) grade point average (GPA) / No course within major or minor below 2.0 GPA / 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 / 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 / ◆ = Denotes course in major at UMGC / * = Denotes lower-level course meets content requirement of upper-level course but does not transfer as upper-level / UL = Denotes upper-level course</p>		