COLLEGE of SOUTHERN MARYLAND

CSM ASSOCIATE OF SCIENCE IN DATA SCIENCE

Students transferring from CSM with a conferred Associate of Arts or Associate of Science degree will have the General Education Requirement (Gen Ed) block of courses met at UMGC (*A.A.S. degrees not included*). See community college advisor for course sequencing.

UNIVERSITY OF MARYLAND GLOBAL CAMPUS

UMGC BACHELOR OF SCIENCE IN DATA SCIENCE

UMGC Maryland Community College Alliances

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

CREDITS	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	WRTG 112 (Gen Ed Communications; *must be completed with C- or better*)
3	CSC 1100 Program requirement	CMSC 105 (elective)
3	MTH 1015 Gen Ed requirement	♦ STAT 200 (required for the major)
3	ITS 1055 Program requirement	IFSM 201 (Gen Ed Arts & Humanities to honor Gen Ed block)
3	Communications Gen Ed requirement	Gen Ed Communications
3	ENG 1020 Gen Ed requirement	ENGL 102 (Gen Ed Communications)
3	ITS 2480 Program requirement	DATA 220 (elective)
4	MTH 1200 Gen Ed requirement	MATH 140 (Gen Ed Mathematics)
4	Biological/Physical Lab Science Gen Ed requirement	Gen Ed Biological & Physical Lab Science
4	CSC 2591 Program requirement	CMSC 115 (elective)
3	MTH 1210 Gen Ed requirement	MATH 141 (Gen Ed Arts & Humanities to honor Gen Ed block)
3	Social/Behavioral Sciences	Gen Ed Behavioral & Social Science
3	Biological/Physical Science Gen Ed requirement	Gen Ed Biological & Physical Science
4	CSC 2592 Program requirement	CMSC 215 (elective)
3	ITS 2450 Program requirement	IFSM elective
3	MTH 2500 Program requirement	CMSC 150 (elective)
5	Approved Technology Elective	Elective
3	Social/Behavioral Sciences	Gen Ed Behavioral & Social Science
60	**Total Credits Transferred**	**Total Credits Transferred**

REMAINING REQUIREMENTS FOR BACHELOR'S DEGREE	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; related requirement to the major)	3
♦ DATA 230 Mathematics for Data Science (required for the major)	3
♦ DATA 300 Foundations of Data Science (required for the major)	3UL
Elective	3
♦ CSIA 300 Cybersecurity for Leaders and Managers (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
Elective	3
♦ DATA 495 Data Science Capstone (required capstone for the major)	3UL
Elective	3
TOTAL CREDITS REMAINING AT UMGC	**60**

NOTES: Minimum of 120 credits, including 30 with UMGC of which at least 15 must be upper-level (courses numbered 300-499), are required for the bachelor's degree with a UMGC grade point average (GPA) of 2.0 (C) or higher / At least one-half of the credits within the major and minor must be comprised of: a. traditional college courses earning a grade (except for the CJLE major); b. UMGC resident coursework (except for the APTC, CJLE, and GECU majors, which require only the major capstone as UMGC resident credit) / No course within the major or minor below the grade of C (2.0) / UMGC does not accept grades below a C (2.0) in transfer from schools outside of the University System of Maryland and the 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 & maximum of 90 transfer credits from all sources combined (actual number of transfer credits dependent on meeting all UMGC bachelor's degree requirements) / ♦[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)

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