



CECIL COLLEGE ASSOCIATE OF SCIENCE IN DATA SCIENCE

Students transferring from Cecil College 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.

CREDIT S	CECIL COLLEGE Requirements for Associate's Degree	UNIVERSITY OF MARYLAND GLOBAL CAMPUS Requirements for Bachelor's Degree
3	EGL 101 Gen Ed requirement	WRTG 112 (Gen Ed Communications; <i>must be completed with 'C-' or</i>
3	DSC 201 Program requirement	♦ DATA 300 ¹ (required for the major)
3	HUM 101 or SPH 121 recom'd Gen Ed requirement	HUMN elec. or SPCH 125 (Gen Ed Communications to honor Gen Ed
3	CSC 105 Program requirement	ENMT 307 ¹ (elective)
4	Science w/ lab Gen Ed elective	Gen Ed Biological & Physical Lab Science
3	CSC 109 Program requirement	CMSC elective
4	MAT 127 Gen Ed requirement	♦ STAT 200 (required for the major)
3	Social and Behavioral Science Gen Ed elective	Gen Ed Behavioral & Social Science
3	CSC 110 Program requirement	IFSM 304 ¹ (elective)
3	EGL 102 Gen Ed requirement	ENGL 102 (Gen Ed Communications)
3	CSC 230 Program requirement	CMSC elective
3	Science w/ out Lab Gen Ed elective	Gen Ed Biological & Physical Science
4	MAT 128 Program requirement	STAT elective
4	MAT 201 Program requirement	MATH 140 (Gen Ed Mathematics; related requirement to the major)
3	Social and Behavioral Science Gen Ed elective	Gen Ed Behavioral & Social Science
4	MAT 202 Program requirement	MATH 141 (elective)
4	Gen Ed elective	Gen Ed Arts & Humanities (to honor Gen Ed block)
3	MAT 236 Program requirement	CMSC 150 (Gen Ed Arts & Humanities to honor Gen Ed block)
60	Total Credits Transferred	Total Credits Transferred

REMAINING REQUIREMENTS FOR BACHELOR'S DEGREE	CREDITS
LIBS 150 Introduction to Research or other Gen Ed credit (to be fulfilled with 1 Gen Ed credit from Cecil College)	---
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 230 Mathematics for Data Science (required for the major)	3
Elective	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
♦ 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 other 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 (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	3
TOTAL CREDITS REMAINING AT UMGC	60

NOTES: Minimum of 120 credits, including 36 upper-level required for bachelor's degree with minimum 2.0 ('C') grade point average (GPA) / Minimum of 30 UMGC resident credits of which at least 15 must be upper-level / 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 / No course within major or minor below 2.0 GPA ('C') / 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 / ♦¹ = Course in major at UMGC / *² = Lower-level course meets content requirement of upper-level course but does not transfer as upper-level / UL³ = 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)