CARROLL COMMUNITY COLLEGE

UNIVERSITY OF MARYLAND GLOBAL CAMPUS

CCC ASSOCIATE OF ARTS IN DATA SCIENCE

UMGC BACHELOR OF SCIENCE IN DATA SCIENCE

Students transferring from CCC 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.

UMGC Maryland Community College Alliances

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

CREDITS	CARROLL COMMUNITY COLLEGE Requirements for Associate's Degree	UNIVERSITY OF MARYLAND GLOBAL CAMPUS Requirements for Bachelor's Degree
3	ENGL 101 Gen Ed requirement	WRTG 112 (Gen Ed Communications; *must be completed with 'C-' or*
3	CIS 105 Program requirement	CMSC elective
3	DATA 101 Program requirement	DATA 200 (Gen Ed Computing; related requirement to the major)
3	ANTH 101, SOC 101, 210, or 215 recom'd Diversity Gen Ed req	Gen Ed Behavioral & Social Science
4	CIA 135 Program requirement	CMST 100G (elective)
3	CIA 170 Program requirement	CMST 100F (elective)
3	ENGL 102 Gen Ed requirement	ENGL 102 (Gen Ed Communications)
4	MATH 115 Gen Ed requirement	♦ STAT 200 (required for the major)
5	MATH 130 recom'd elective	MATH 115 (Gen Ed Mathematics; related requirement to the major)
3	CIS 148 Program requirement	CMSC 320* (elective)
3	COMM 105 Gen Ed requirement	SPCH 101 (Gen Ed Communications)
4	Biological and Physical Sciences w/ Lab Gen Ed requirement	Gen Ed Biological & Physical Lab science
3	Social and Behavioral Sciences Gen Ed requirement	Gen Ed Behavioral & Social Science
3	Elective	Elective
3	DATA 210 Program requirement	♦ DATA 320* (required for the major)
3	PHIL 105 Gen Ed requirement	PHIL 140 (Gen Ed Arts & Humanities)
3	Biological and Physical Sciences w/ out Lab Gen Ed req	Gen Ed Biological & Physical Science
3	Gen Ed elective	Gen Ed Arts & Humanities (to honor Gen Ed block)
1	Gen Ed elective	Elective
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 CCC)	---
PACE 111T Program and Career Exploration in Technology or other PACE 111	3
♦ DATA 230 Mathematics for Data Science (required for the major)	3
Elective	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
♦ IFSM 330 Business Intelligence and Data Analytics (required for the major)	3UL
Elective	3
♦ 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
Elective	3
♦ DATA 440 Advanced Machine Learning (required for the major)	3UL
♦ 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
♦ 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 / UL[3] = Upper-level course (numbered 300-499)

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[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)