MONTGOMERY COLLEGE

A.A. in General Studies STEM with Data Science Certificate

UNIVERSITY OF MARYLAND 1856

CATALOG YEAR: 2025-26

B.S. in Information Science

CREDITS	MONTGOMERY COLLEGE Requirements for Associate's Degree		TRANSFER INSTITUTION Requirements for Bachelor's Degree
3	ENGL101 (if needed, or program elective)		Lower-Level Elective
3	MATH117 - Elements of Statistics (MATF)		STAT100
3	Behavioral and Social Sciences Distribution (BSSD) (PSYC100 recommended) **		
3	Natural Sciences Distribution non-lab (NSND)		
3	COMM108 or COMM112 (recommended) (GEIR)		COMM107
3	ENGL102 or ENGL103 (ENGF)		ENGL101
4	Natural Sciences Distribution with lab (NSLD)		
3	Humanities Distribution (HUMD) (any 200-level course)		
3	DATA101 – Intro to Data Science (STEM 1) *		Lower-Level Elective
3	DATA110 – Writing and Communication in Data Science (STEM 2) *		Lower-Level Elective
3	Behavioral and Social Sciences Distribution (BSSD)**		
3	GDES116 or GDES121 (recommended) (ARTD)		ARTT255 or ARTT208
3	DATA201 - Statistical Methods in Data Science (STEM 3) *		Lower-Level Elective
4	MATH165 – Precalculus (STEM 4) *		MATH115
3	ARTD or HUMD or HLTH Gen Ed course (200 level recommended) (GEIR)		
3	CMSC140 – Introduction to Programming		Lower-Level Elective
4	DATA205 – Capstone Experience in Data Science (STEM 5) *		Lower-Level Elective
3	Elective (any 200-level course)		
3	Elective (any 200-level course)		
60	**TOTAL CREDITS TRANSFERRED**		

REMAINING UMD DEGREE REQUIREMENTS - RECOMMENDED SEQUENCE UPON TRANSFER WITH ASSOCIATE'S DEGREE	
INST201 Intro to Information Science	3
INST311 Information Organization	3
INST326 Object-Oriented Programming	3
INST314 Statistics for Information Science	3
INST335 Teams and Organizations	3
INST327 Database Design and Modeling	3
INST352 Information User Needs & Assessment	3
INST362 User-Centered Design	3
Professional Writing	3
INST346 Technologies, Infrastructure & Architecture	3
Major Electives	18
INST490 Integrative Capstone	3
Electives	3
TOTAL CREDITS REMAINING AT UNIVERSITY OF MARYLAND	**60**

MONTGOMERY COLLEGE NOTES
* These courses are required for DATA Science Certificate ** Behavioral and Social Science Distribution (BSSD) courses must come from different disciplines. The UMCP B.S. in Information Science degree program has four prerequisites that are expected to be completed prior to transferring. These include: • PreCalculus or better - MATH150, MATH165, or higher • Introductory Statistics - MATH117, BSAD210, or equivalent • Introductory Psychology - PSYC100 • Introductory Programming - CMSC140 CMSC 206 - Introduction to Python is also recommended

UNIVERSITY OF MARYLAND NOTES
UMD Contact: usginfosci@umd.edu ^The number of electives credits students are required to complete depends upon how many transfer credits were accepted by UMD. The UMCP B.S. in Information Science degree program requires students to complete 30 credits of required core courses and 15 credits of upper-level major electives, which include INST300-level and INST400-level courses. The number of general electives a student takes depends on the transferable credits accepted. The number of transferable credits that can be applied to a degree at UMD varies by the source of those credits: • **2-year institutions**: A maximum of 70 credits can be applied toward a degree. • **4-year institutions or a combination of 2-year and 4-year institutions**: A maximum of 90 credits can be applied toward a degree. As of Fall 2024, UMD does NOT grant credits for the following Montgomery College elective courses (*please note that this list is subject to change; check with the Information Science program representative for details*): • **CMSC**: 220, 234, 237, 253, 269 • **NWIT**: UMD does not accept NWIT courses. • **CMAP**: UMD does not accept CMAP courses, except for CMAP120. • **TECH**: UMD does not accept TECH courses, except for TECH276. • For more information, please check the UMD Transfer Database: UMD Transfer Database.