Suggested Transfer Pathway
Montgomery College A.S. in Data Science to University of Maryland, College Park at the Universities at Shady Grove B.S. in Information Science
Catalog Year: 2022-2023

0 - 31 Credits – Montgomery College

Fall Semester	Cr
ENGL 101/ENGL 101A - Intro to College Writing*	3
MATH 117 - Elements of Statistics or MATH 217 - Biostatistics	3
MATH 181 - Calculus I or MATH 150 – Elementary Applied Calculus I (MATF)	4
PSYC 102 – General Psychology (BSSD)**	3
COMM 108 - Intro to Human Communication (GEEL) or COMM 112 - Business and Professional Speech (GEEL)	3
Total Credits	**16**

Spring Semester	Cr
ENGL 102 – Critical Reading, Writing, and Research or ENGL 103 – Critical Reading Writing, and Research in the Work Place	3
PHIL 140 – Introduction to the Study of Ethics (HUMD)	3
Behavioral & Social Sciences Distribution (BSSD) ** GEOG 130 – Global Geography (recommended)	3
DATA 101 – Intro to Data Science	3
DATA 110 – Data Visualization and Communication	3
Total Credits	**15**

32 - 60 Credits – Montgomery College

Fall Semester	Cr
Natural Sciences Distribution with Laboratory (NSLD) ‡	4
DATA 201 - Statistical Methods in Data Science	3
MATH 264 – Applications in Linear Algebra ***	4
Elective †	4
Total Credits	**15**

Spring Semester	Cr
Arts Distribution (ARTD)	3
Natural Sciences Distribution with Laboratory (NSLD) ‡	4
DATA 205 – Capstone in Data Science	4
200-Level Program Elective †	3
Total Credits	**14**

* ENGL 101/ENGL 101A, if needed for ENGL 102/ ENGL 103 or program elective.
** Behavioral and Social Science Distribution (BSSD) courses must come from different disciplines. Contact department advisor for transfer requirements for specific schools.
*** Students may substitute MATH 284 for MATH 264.
‡ Students are strongly encouraged to take two consecutive lab sciences courses. Examples include BIOL 105/106 or CHEM 131/132 or PSCI 101/102 or PHYS 203/204.
† Program Electives include: strongly recommended CMSC 206 and GEOG 240; CMSC 206 will provide students with programming skills in Python and GEOG 240 provides foundational knowledge of Geographic Information Systems (GIS); other program electives may include MATH 165, MATH 182, CMSC 140, CMSC 203, GEOG 130, GEOG 260. Not all program elective options transfer to all institutions. Please consult a data science program advisor or the transfer institution before selecting program elective courses.

61 - 90 Credits – UMD, College Park at USG

Fall Semester	Cr
INST 301 Intro to Information Science	3
INST 311 Information Organization	3
INST 326 Object-Oriented Programming	3
INST 314 Statistics for Info Science	3
INST 335 Teams and Organizations	3
Total Credits	**15**

Spring Semester	Cr
INST 327 Database design and Modeling	3
INST 352 Info User Needs & Assessment	3
INST 362 User-Centered Design	3
Upper-Level Major Elective	3
Upper-Level Major Elective	3
Total Credits	**15**

91-120 credits – UMD, College Park at USG

Fall Semester	Cr
INST 346 Technologies, Infrastructure & Architecture	3
Professional Writing	3
Upper-Level Major Elective	3
Elective	3
Elective	3
Total Credits	**15**

Spring Semester	Cr
INST 490 Integrative Capstone	3
Upper-Level Major Elective	3
Upper-Level Major Elective	3
Elective	3
Elective	3
Total Credits	**15**

MC A.S. in Data Science
to UMD-USG B.S. in Information Science
Catalog Year: 2022-2023

	COURSE	HRS	GRADE
General Education: Foundation Courses			
Critical Reading, Writing, and Research (ENGF) or Critical Reading, Writing, and Research in the Workplace (ENGF)	ENGL 102 or ENGL 103	3	
Elements of Statistics (MATF)	MATH 117	3	
General Education: Distribution Courses			
Arts Distribution (ARTD)		3	
Intro to Study of Ethics (HUMD)	PHIL 140	3	
General Psychology (BSSD)	PSYC 102	3	
Behavioral & Social Sciences Distribution (BSSD) Recommended GEOG 130 (GCP)		3	
Natural Sciences Distribution with Lab (NSLD)		4	
Natural Sciences Distribution with Lab (NSLD)		4	
Foundations of Human Communication (GEEL) or Business and Professional Speech Communication (GEEL)	COMM 108 or COMM 112	3	
Program Requirements			
Introduction to Data Science	DATA 101	3	
Data Visualization and Communication	DATA 110	3	
Statistical Methods in Data Science	DATA 201	3	
Capstone Experience in Data Science	DATA 205	4	
Calculus I	MATH 181 or MATH 150	4	
Applications in Linear Algebra	MATH 264	4	
Program Elective		3	
Program Elective		3	
Program Elective		4	
TOTAL		**60**	

* ENGL 101/ENGL 101A, if needed for ENGL 102/ ENGL 103

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