



Suggested Transfer Pathway
Montgomery College A.A. in General Studies with Data Science
Certificate to
University of Maryland, College Park at the Universities at Shady
Grove B.S. in Information Science



Total Credits: 63, Catalog Year: 2022-2023

0 - 31 Credits – Montgomery College

(Courses may be taken in any order, pending prerequisites)

Fall Semester	Cr
ENGL101/ENGL101A - Intro to College Writing	3
MATH117 - Elements of Statistics	3
Behavioral and Social Sciences Distribution (PSYC102 recommended) **	3
NSND (Natural Sciences Distribution w/o lab)	3
COMM108 - Intro to Human Communication OR COMM112 - Business and Professional Speech (recommended)	3
Total Credits	15

Spring Semester	Cr
ENGL102 – Critical Reading, Writing, and Research OR ENGL103 – Critical Reading Writing, and Research in the Work Place	3
NSLD (Natural Sciences Distribution with lab)	4
HUMD (Humanities Distribution) - any 200 level course	3
STEM 1 -- DATA101 – Intro to Data Science*	3
STEM 2 -- DATA110 – Writing and Communication in Data Science*	3
Total Credits	16

32 - 63 Credits – Montgomery College

Fall Semester	Cr
BSSD** (Behavioral and Social Sciences Distribution)	3
GDES116 - Digital Tools for Visual Arts or GDES121- Fundamentals of Graphic Design I (recommended)	3
STEM 3 -- DATA201 - Statistical Methods in Data Science*	3
STEM 4 -- MATH165 - Precalculus	4
GEIR HLTH or ARTD or HUMD 200 level recommended	3
Total Credits	16

Spring Semester	Cr
CMSC140 – Introduction to Programming	3
STEM 5 -- DATA205 – Capstone Experience in Data Science*	4
Elective – any 200 level course	3
Elective – any 200 level course	3
Elective – any course	3
Total Credits	12-14

Apply to graduate from Montgomery College with an Associate of Arts in General Studies with Data Science Certificate

* These courses are required for DATA Science Certificate

** Behavioral and Social Science Distribution (BSSD) courses must come from different disciplines.

Year Three – 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
Major Elective	3
Major Elective	3
Total Credits	15

Year Four – UMD, College Park at USG

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

Spring Semester	Cr
Major Elective	3
INST 490 Integrative Capstone	3
Major Elective	3
Elective	3
Elective	3
Total Credits	15

MC A.A. in General Studies with Data Science Certificate
to UMD-USG B.S. in Information Science

Total Credits: 63, Catalog Year 2022-2023

Name:	Date:	ID#	
Distribution Courses	COURSE	HRS	GRADE
English Foundation (ENGL102, Critical Reading, Writing and Research)	ENGL102	3	
Math Foundation	MATH117	4	
NSND: General Physics I: Mechanics and Heat	PHYS161	3	
NSLD: General Physics II: Electricity and Magnetism	PHYS262	4	
Behavioral and Social Sciences Distribution ** (PSYC102 recommended)		3	
Behavioral and Social Sciences Distribution **		3	
Humanities Distribution	Any 200-Level	3	
Program Requirements	COURSE	HRS	GRADE
ENGL101 (if needed for ENGL102/ENGL103, general elective if not)		3	
Intro to Human Communication <u>or</u> Business and Professional Speech	COMM108 or COMM 112	3	
Introduction to Data Science	DATA101	3	
Writing and Communication in Data Science	DATA110	3	
Digital Tools for Visual Arts <u>or</u> Fundamentals of Graphic Design I	GDES116 or GDES121	3	
Statistical Methods in Data Science	DATA201	3	
Precalculus	MATH165	4	
GEIR HLTH or ARTD or HUMD	200-Level	3	
Introduction to Programming	CMSC140	3	
Capstone Experience in Data Science	DATA205	4	
Elective		3	
Elective	200-Level	6	
TOTAL		63	

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