	COLLEGE	BOWIE BAGS	CATALOG YEAR 2024-25
A.S. in Data Science		B.S. in Business Administration with Data Analytics concentration	
CREDIT	MONTGOMERY COLLEGE Requirements for Associate's Degree	BOWH STATEUNIVERSE Requirements for Bachelor's De	
3	ENGL 101 - Introduction to College Writing*	ENGL 101	
4	MATH 181 - Calculus I (MATF)	MATH 225 (Gen Ed – Math)	
3	PSYC 100 - General Psychology (BSSD)**	PSYC 100 (Gen Ed – Elective I*)	the second second
3	COMM 108 or COMM 112 (GEEL)	COMM 101	the second of the
3	MATH 117 or MATH 217	MATH 155	All second
3	ENGL102 or ENGL103 (ENGF)	ENGL 102	A Contraction of the
3	PHIL 140 - Introduction to the Study of Ethics (HUMD)	Free elective	
3	GEOG 130 - Global Geography (BSSD)**	Free elective	
3	DATA 101 - Introduction to Data Science	DANL 280 (Gen Ed – Elective II*)	
3	DATA 110 - Data Visualization and Communication	DANL 340	
4	Natural Sciences Distribution with Lab (NSLD) ‡	Gen Ed – Science I	_
3	DATA 201 - Statistical Methods in Data Science	DANL Elective** - I	
4	MATH 264 - Applications in Linear Algebra	MATH 228	
4	CMSC 206 - Python Programming†	BUIS 305	
3	Arts Distribution (ARTD)	Gen Ed – Elective III	
4	Natural Sciences Distribution with Lab (NSLD) ‡	Gen Ed – Science I	
4	DATA 205 - Capstone Experience in Data Science	DANL Elective - II	
3	CMSC 246 -Introduction to SQL Using Oracle †	DI III DI CA	
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MONEGOMERY COLLEGENOLES

* 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, CMSC 246, and GEOG 240; CMSC 206 and CMSC 246 will provide students with programming skills in Python and SQL and GEOG 240 provides foundational knowledge of Geographic Information Systems (GIS); other program electives may include any MATH or CMSC course, or GEOG 130 or 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.

BOWIE STATE UNIVERSITY NOTES

* Approved list of courses for general education courses can be found in the BSU catalog at <u>https://bowiestate.edu/academics/catalogs.php</u>

**Approved list of courses for DANL elective courses can be found in the BSU catalog at <u>https://bowiestate.edu/academics/catalogs.php</u> or <u>https://catalog.bowiestate.edu/preview_program.php?catoid=20&poid=1974&returnto=1430</u>

** A minimum of grade C is required for business, economics, English and data analytics courses.

^ MC's HLTH160 = BSU's HEED102; MC's HLTH200 = BSU's HEED200