



**A.S. in Data Science**



CATALOG YEAR:  
2025-26

**B.S in Business Administration with Data Analytics concentration**

MONTGOMERY COLLEGE Requirements for Associate's Degree		BOWIE STATE UNIVERSITY Requirements for Bachelor's Degree
3	ENGL101 Introduction to College Writing*	ENGL 101
4	MATH 181 Calculus I (MATF)	MATH 225 (Gen Ed -Math)
3	PSYC 100 General Psychology (BSSD)**	(Gen Ed -Elective I)
3	COMM 108 or COMM 112 (GEEL)	COM 101
3	MATH 117 or MATH 217	MATH 155
3	ENGL 102 or ENGL103 (ENGF)	ENGL 102
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 II
4	DATA 205- Capstone Experience in Data Science	DANL Elective II^
3	CMSC 246 -Introduction to SQL Using Oracle†	BUIS 362
<b>60</b>	<b>TOTAL CREDITS TRANSFERRED</b>	
<b>REMAINING BOWIE STATE UNIVERSITY DEGREE REQUIREMENTS RECOMMENDED SEQUENCE UPON TRANSFER WITH ASSOCIATE'S DEGREE</b>		
	ACCT 211 - Principles of Accounting I	3
	ACCT 212 - Principles of Accounting II	3
	BUAD 350 - Business Law I	3
	BUIS 360 - Information Systems for Management	3
	ECON 321 - Money, Banking and Financial Markets	3
	ECON 483 - Quantitative Methods	3
	ENGL 361 - Technical and Professional Writing	3
	FINA 320 - Principles of Finance	3
	MGMT 101 - Introduction to Business	3
	MGMT 241 - Principles of Management	3
	MGMT 344 - Organizational Behavior	3
	MGMT 356 - Professional Development I	2
	MGMT 358 - Professional Development II	1
	MGMT 480 - Production and Operational Management	3
	MGMT 440 - Business Strategy & Pol	3
	MKTG 231 - Principles of Marketing	3
	Business Elective (300 or above)	3
	DANL 480 - Big Data Analytics	3
	DANL 490 - Capstone in Data Analytics	3
	BUIS 462 - Decision Science and Analytics	3
	PHIL 103 - Introduction to the Principles of Reasoning	3
	HIST 114 - African American History to 1865 or HIST 115 - African American History	3
	<b>TOTAL CREDITS REMAINING AT BOWIE STATE UNIVERSITY</b>	<b>66</b>

#### MONTGOMERY COLLEGE NOTES

\* 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 <https://bowiestate.edu/academics/catalogs.php>

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

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