



A.S. Data Science



CATALOG YEAR:
2025-26

B.S. Data Science

MONTGOMERY COLLEGE Requirements for Associate's Degree		COPPIN STATE UNIVERSITY Requirements for Bachelor's Degree
3	ENGL 101 Intro to College Writing *	
4	MATH 181 Calculus (MATF)	MATH 201
3	PSYC 100 General Psychology (BSSD)	PSYC 201
3	COMM 108 Foundations of Human Comm or COMM 112 Business & Professional Speech (GEEL)	SPCH 105
3	MATH 117 Elements of Statistics or MATH 217 Biostatistics	MATH 203
3	ENGL 102 or ENGL 103 (ENGF)	ENGL 102
3	PHIL 140 - Intro to the Study of Ethics (HUMD)	Lower-level Elective
3	GEOG 130 Global Geography (BSSD) (GCP)	GEOG 102
3	DATA 101 Introduction to Data Science	Lower-level Elective
3	DATA 110 Data Visualization and Communication	Lower-level Elective
4	Natural Science Distribution with Lab (NSLD)	
3	DATA 201 Statistical Methods in Data Science	Lower-level Elective
4	MATH 264 Applications in Linear Algebra **	MATH 301
3	Program Elective †	
3	Arts Distribution (ARTD)	
4	Natural Science Distribution with Lab (NSLD) ‡	
4	DATA 205 Capstone in Data Science	Lower-level Elective
3	200-Level Program Elective † (CMSC 206 Recommended)	
60	TOTAL CREDITS TRANSFERRED	
REMAINING COPPIN STATE UNIVERSITY DEGREE REQUIREMENTS RECOMMENDED SEQUENCE UPON TRANSFER WITH ASSOCIATE'S DEGREE		
	ACCT 201 Principles of Financial Accounting	3
	BDSC 340 Operations Management	3
	BUSI 310 Business Law	3
	DSCI 310 Data Science Programming	3
	ECON 211 Principles of Economics I	3
	ACCT 202 Principles of Managerial Accounting	3
	BUSI 320 Fundamentals of Intl. Business	3
	ECON 212 Principles of Economics II	3
	MGMT 305 Business Communications	3
	MISY 341 Small Systems Software	3
	DSCI 375 Time Series Modeling and Forecasting	3
	DSCI 420 Machine Learning	3
	FINM 330 Business Finance	3
	MGMT 320 Principles of Management	3
	MKTG 310 Principles of Marketing	3
	BUSI 495 Seminar in Business Strategy & Policy	3
	DSCI 356 Data Science Cloud Computing	3
	DSCI 490 Data-driven Decision Making	3
	MISY 360 Database Mgmt. Principles	3
	General Elective (Recommended: Any COSC, MATH, or MISY course)	3
TOTAL CREDITS REMAINING AT COPPIN STATE UNIVERSITY		60

MONTGOMERY COLLEGE NOTES

* ENGL 101/ENGL 101A, if needed for ENGL 102/ ENGL 103 or program elective.

** 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: MATH 165, MATH 182, CMSC 140, CMSC 203, CMSC 206, GEOG 240, and GEOG 260. Department strongly recommends CMSC 206 and GEOG 240. CMSC 206 provides programming skills in Python; GEOG 240 provides foundational knowledge of Geographic Information Systems (GIS). 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.

COPPIN STATE UNIVERSITY NOTES