

Suggested Transfer Pathway

College of Southern Maryland Associate of Science in Data Science to
West Virginia Bachelor of Science in Data Science
Total Credits: 61, Catalog Year: 2025-2026



College of Southern Maryland

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

Year One – First Semester	Credits
ENG 1010 Composition and Rhetoric	3
CSC 1100 Practical Programming with Python	3
MTH 1015 Introduction to Statistics	3
ITS 1055 Introduction to Computing	3
Communication General Education Course	3
TOTAL	15

Year One – Second Semester	Credits
ENG 1020 Composition & Literature	3
ITS 2480 Foundations of Data Science	3
MTH 1200 Calculus I and Analytic Geometry	4
CHE 1200 & CHE 1200L General Chemistry I & Lab	4
TOTAL	14

Year Two – First Semester	Credits
CSC 2591 Computer Science I	4
MTH 1210 Calculus II	4
Social/Behavioral Science	3
CHE 1210 & CHE 1210L General Chemistry II & Lab	4
TOTAL	15

Year Two – Second Semester	Credits
CSC 2592 Computer Science II	4
ITS 2450 Business Analytics and Data Visualization	3
MTH 2500 Introduction to Discrete Math	3
MTH 2200(Recommended) Calculus III	4
Social/Behavioral Science	3
TOTAL	17

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advisor@csmd.edu

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Year Three – First Semester	Credits
CS 111 & CS 111L Introduction to Data Structures & Lab	4
DSCI 101 Introduction to Data Science	3
STAT 215 Introduction to Probability and Statistics	3
Science Pair 2	4
TOTAL	14

Year Three – Second Semester	Credits
DSCI 221 Reproducible Data Science using R	4
DSCI 301 Databases for Data Science	3
STAT 312 Intermediate Statistical Methods	3
Science Pair 2	4
TOTAL	14

Year Four – First Semester	Credits
MATH 441 Applied Linear Algebra	3
DSCI 222 Data Science Workflows using Python	3
DSCI 310 (Fall Only) Statistical Machine Learning 1	3
Technical Elective (1)	3
EDG 2: Effective and Civil Communication	3
TOTAL	15

Year Four – Second Semester	Credits
DSCI 311 (Spring Only) Statistical Machine Learning 2	3
Technical Elective	3
Technical Elective	3
Technical Elective	3
EDG 3: Ethics and Civil Responsibility	3
TOTAL	15

Students who have completed 30 or more credits must have completed MAT 1200 (MATH 155) with C- or higher and have earned a 2.0 overall GPA.

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Year Five – First Semester	Credits
DSCI 480 (Fall Only) Capstone Design	1
DSCI 410 (Fall Only) Big Data in Practice: Cloud and Parallel Computing	3
DSCI 450 (Fall Only) Current Topics in Data Science	3
EDG 4: Global and Regional Perspectives	3
ARSC 380	3
TOTAL	13

Year Five – Second Semester	Credits
DSCI 481 (Spring Only) Capstone Experience	2
TOTAL	2

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