## United States Armed Forces / Old Dominion University **Military Pathway** Catalog Year 2024–2025

## **BACHELOR OF SCIENCE – DATA SCIENCE**

Requirements Potentially Met Outside Classroom			
Military Course, Certification, Experience, or Exam	ODU Equivalent Course	Credits	
Lower-Division	General Education Requirements		
CLEP <sup>1 2 3</sup> College Composition (NOT Modular)	ENGL 110C English Composition	3	
DSST Technical Writing	ENGL 231C Writing, Rhetoric, and Research: Special Topics	3	
Instructor, career counselor, recruiter, or select specialties	Oral Communication requirement	3	
CLEP Precalculus or select specialties	MATH 162M and MATH 163 Precalculus I & II	6	
DSST Principles of Statistics	STAT 130M Elementary Statistics	3	
CLEP Foreign Languages or military linguist or DLIFLC grad	Language and Culture requirement <sup>4</sup>	6	
CLEP Any Social Science exam except Educational Psych	Human Behavior requirement	3	
CLEP Any History exam	Interpreting the Past requirement	3	
CLEP American or Analyzing & Interpreting Literature	Literature requirement	3	
CLEP Biology <sup>5</sup>	Nature of Science requirement	8	
Departm	ent or Major Requirements		
CLEP or DSST multiple choices	Elective or General Education requirements	various	
Select specialties	GEOG 102T Digital Earth: Geospatial Technology and Society	3	
Select specialties	GEOG 402 Geographic Information Systems	3	
Select specialties	GEOG 404 Digital Techniques for Remote Sensing	3	
Select specialties	GEOG 432 Advanced GIS	3	
Select specialties	GEOG 462 Advanced Spatial Analysis	3	
Select specialties	GEOG 473 Geographic Information Systems for Emergency Management	3	
	Requirements Potentially Met Outside Classroom	59+	

Note: Prior learning credit not to exceed 60 credit hours is also available in specific situations at a cost of 20-50% of the current tuition rate: https://ww1.odu.edu/academics/academic-records/evaluation-of-credit/prior-learning

<sup>&</sup>lt;sup>1</sup> A passing CLEP or DSST examination score will satisfy the ODU requirement. See https://clep.collegeboard.org/ and https://www.odu.edu/academics/academic-records/score-analysis/clep-dantes for details.

<sup>&</sup>lt;sup>2</sup> A student may forego the CLEP or DSST option and satisfy the requirements by taking the actual courses. If a course is taken elsewhere check first for transfer equivalency here https://transfer2.odu.edu/equivalency/.

<sup>&</sup>lt;sup>3</sup> Modern States offers CLEP preparation here <u>https://modernstates.org/</u>.

<sup>&</sup>lt;sup>4</sup> ODU's Language and Culture requirement can be satisfied by three years of a foreign language or two years of two foreign languages in high school. Students whose native language is not English are exempt from taking a foreign language for general education.

<sup>&</sup>lt;sup>5</sup> Biology is the only CLEP exam that will satisfy all eight credit hours for ODU's Nature of Science requirement.

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# BACHELOR OF SCIENCE – DATA SCIENCE

## Requirements Met at ODU

A minimum of 30 credits must be taken <u>at ODU</u> and 120 credits total to earn degree

Short Title	Course Title	Credits
	Data Science Foundation and Core Requirements	
BDA 200T	Elements of Data Science (meets Impact of Technology requirement)	3
CS 153	Introduction to Programming with Python	4
CS 251	Programming with Java	4
DASC 300	Foundations of Data Science	3
DASC 434	Data Science Research Methods	3
DASC 436W	Data Science Capstone Project (writing intensive; C or better required)	3
DASC or PHIL 357E	Ethics and Data (meets Philosophy and Ethics requirement)	3
DASC or SOC 205S	Data, Technology, and Society (cannot meet Human Behavior requirement)	3
Human Creativity	Human Creativity requirement	3
IT 360T	Principles of Information Technology	3
IT 450	Database Concepts	3
STAT 310	Introductory Data Analysis	3
	Artificial Intelligence and Machine Learning Area of Specialization Requirements	I
CS 252	Introduction to Unix for Programmers	1
CS 361	Data Structures and Algorithms	3
CS 422 or BDA 411	Introduction to Machine Learning	3
CS 480 or MSIM 480	Introduction to Artificial Intelligence	3
MATH 211	Calculus I	4
MATH 212	Calculus II	4
Electives	Select three of five approved area electives	9
	Data Visualization Area of Specialization Requirements	•
BNAL 206	Business Analytics I	3
BNAL 306	Business Analytics II	3
BNAL 403	Data Visualization and Exploration	3
CS 252	Introduction to Unix for Programmers	1
CS 361	Data Structures and Algorithms	3
ECE 406	Computer Graphics and Visualization	3
GAME 201T	Introduction to Game Studies	3
MATH 211	Calculus I	4
Electives	Select two of seven approved area electives	6
Geos	patial Information Systems Area of Specialization Requirements (remainder on page 1)	
GEOG 419	Spatial Analysis of Coastal Environments	3
GEOG 425	Internet Geographic Information Systems	3
GEOG 463	GIS Programming	3
	Requirements met at ODU	47+
	Total credits for degree	120

Next steps:

- Submit application at <a href="https://www.odu.edu/apply/applications">https://www.odu.edu/apply/applications</a>. Online students use application fee waiver code provided by your ODUGlobal enrollment coordinator.
- Order your high school, college, CCAF, and/or joint service transcripts sent to <u>admissions@odu.edu</u> or Old Dominion University, Undergraduate Admissions, 1004 Alfred B. Rollins Jr. Hall, Norfolk, Virginia 23529-0050.
- Electronically sign your application.
- Monitor your application portal for status updates until an admission decision is made.
- Accept your admission offer and set up your ODU account/email as directed by Admissions.
- Complete orientation and meet with your academic advisor prior to course registration.
- Finalize your degree plan with your academic advisor based on this pathway.

Oct 21, 2024

Dr. Frank Liu Professor and School Director Data Science Old Dominion University

Date

Dr. Bonnie Van Lunen Interim Vice Provost Academic Affairs Old Dominion University 10-28-24

Date