



Bachelor of Science in Statistics and Data Science

2023-2024 Catalog Year

UNIVERSITY DELL REQUIREMENTS (42 Credits)

Core (12 Credits)

		SEM	GR
COMM 101	Oral Argumentation & Advocacy	_____	_____
ENGL 123W	College Writing Workshop	_____	_____

Integrative Seminars

	NMBR	SEM	GR
DELL 100-level	First-Year Seminar	_____	_____
DELL 400-level	Senior-Year Seminar	_____	_____

Artistic & Creative Thinking* (3 Credits)

Ethics or Civic Engagement* (3 Credits)

Historical Interpretation* (3 Credits)

Language & Intercultural Competence** (6 Credits)

Literary Analysis* (3 Credits)

Living Well* (2 Credits)

Quantitative Reasoning* (3 Credits)

STAT 222 Introductory Statistics

Scientific Literacy* (4 Credits)

Social Science Literacy* (3 Credits)

GENERAL ELECTIVES*** (33-36 Credits)

MAJOR REQUIREMENTS (39 Credits)

Statistics Core (24 Credits)

		SEM	GR
CS 131	Fundamentals of Programming	_____	_____
MATH 103	Calculus I	_____	_____
MATH 104	Calculus II	_____	_____
MATH 311	Probability Theory	_____	_____
STAT 222	Introductory Statistics	_____	_____
STAT 305	Data Handling for Statistics	_____	_____
STAT 333	Mathematical Statistics	_____	_____
STAT 400W	Statistical Methods	_____	_____

Statistics Core^a (6 Credits)

Two from the following:

STAT 300	Applied Data Analysis	_____	_____
STAT 302	Introduction to Statistical Inference	_____	_____
STAT 325	Applied Regression Analysis	_____	_____

Internship or Research^b (3 Credits)

One from the following:

STAT 399	Internship in Statistics	_____	_____
STAT 451W	Senior Project	_____	_____

Additional Major Electives^c (6 Credits)

NOTES

*Refer to the class schedule for lists of courses that satisfy University requirements.

**Must take two sequential courses.

***Courses that do not satisfy a major or DELL requirement. Can include coursework for a minor.

^aChoose two courses from the list provided.

^bChoose one course from the list provided.

^cChoose 6 credits from Other CS courses (any level) or other MATH courses 200 level and above or STAT courses 300 level and above.

Total credits required for graduation: 124 Credits

For graduation with Honors, see Undergraduate Catalog

Statistics & Data Science Major (Bachelor of Science)

Sample Four-Year Plan

While not all students will take all the courses in the same sequence, the guide below can be used in combination with the online graduation progress report as a pathway to degree completion. See the Academic Regulations in the University of Lynchburg Undergraduate Catalog for all academic degree requirements. Students should consult their major advisor for more specific guidance.

Semester 1	Credits	Semester 2	Credits
MATH 103	3	MATH 104	3
Quantitative Reasoning (STAT 222)	3	STAT 305	3
College Success Strategies (G S 104)	1	COMM 101	3
ENGL 123W	3	Language & Intercultural Competence II	3
First-Year Seminar	3	Elective	3
Language & Intercultural Competence I	3		
Semester Credits:	16	Semester Credits:	15
Semester 3	Credits	Semester 4	Credits
MATH 311	3	STAT 333	3
Statistics Core	3	Statistics Core	3
Historical Interpretation	3	Literary Analysis	3
Scientific Literacy	4	Living Well	2
Artistic & Creative Thinking	3	Elective	3
		Elective	3
Semester Credits:	16	Semester Credits:	17
Semester 5	Credits	Semester 6	Credits
Major Elective	3	CS 131	3
Ethics or Civic Engagement	3	Major Elective	3
Elective	3	Social Scientific Literacy	3
Elective	3	Elective	3
Elective	3	Elective	3
Semester Credits:	15	Semester Credits:	15
Semester 7	Credits	Semester 8	Credits
STAT 451W	3	STAT 400W	3
Elective	3	Senior-Year Seminar	3
Elective	3	Elective	3
Elective	3	Elective	3
Elective	3	Elective	3
Semester Credits:	15	Semester Credits:	15

Minimum Credits Required to Graduate: 124