

Degree: Statistics, B.S.: Data Science Concentration				
Requirement Area	Course	Course Title	Prerequisites	Units
First Semester				
E	GS 101A	Foundations of Success I		1
A1 or A3		Oral Communication or Critical Thinking		3
B4/LD Major	MATH 130	Calculus I	One from the following: Satisfactory score of 78 or higher on Mathematics Placement Exam, MATH 120 or MATH 125 (either course with grade C- or better).	4
C1 or C2		Arts or Humanities		3
D1/Code 1		Social Science/U.S Code (1,2)		3
			Total:	14
Second Semester				
E	GS 101B	Foundations of Success II		1
A2		Written Communication		3
C1 or C2		Arts or Humanities		3
D2		Social Science		3
LD Major	CS 100	Programming for Everyone		3
Elective				2
			Total:	15
Third Semester				
E				1
A1 or A3		Oral Communication or Critical Thinking		3
Add'l C1 or C2*		Arts or Humanities		3
B2/B3		Life Science/Laboratory Science		3
Writing II/WID (2nd Comp)	ENGL 200	College Writing II		3
LD Major	CS 200	Advanced Programming for Everyone	CS 100	3
			Total:	16
Fourth Semester				
D3		Social Science		3
B1/B3		Physical Science/Laboratory Science		3
UD Major	STAT 315	Exploring and Analyzing Data	Completion of GE area B4	3
Elective				3
Elective				3
			Total:	15
Fifth Semester				
B6/Overlay				3
UD Major	STAT 330	Statistical Inference	One of: MATH 115, MATH 120, MATH 180.	3
Code 2		U.S. Code (1,3)		3
UD Major Elective				3
Concentration Elective				3
			Total:	15
Sixth Semester				
D4/Overlay				3
UD Major	STAT 321	Probability Through Simulation	CS 100	3
UD Major	STAT 331	Introduction to Analysis of Variance	STAT 316 or STAT 330	3
UD Major	STAT 432	Introduction to Linear Regression and Logistic Regression	STAT 330 or STAT 310	3
Concentration Elective				3
			Total:	15
Seventh Semester				
C4/Overlay				3
UD Major Elective				3
Concentration Elective	STAT 450	Introduction to R for Data Science	One of: STAT 110, STAT 303, STAT 310, STAT 315, STAT 330	3
Concentration Elective	STAT 451	Introduction to Data Visualization	STAT 303 or STAT 310 or STAT 316 or STAT 330.	3
UD Major	STAT 495	Data Analysis with SAS	STAT 330	3
			Total:	15
Eighth Semester				
Concentration Elective	STAT 452	Introduction to Statistical Learning	One of: STAT 110, STAT 303, STAT 310, STAT 315, STAT 330.	3
UD Major Elective				3
Elective				3
Elective				3
Elective				3
			Total:	15
Total Units:				120

General Education & University Requirements - Suggested Courses

Area A (9 units): Communication in the English Language & Critical Thinking
(Must earn passing grade of C-/CR or better)

- A1. COMM 100 or 104
- A2. ENGL 101, 102, or 104
- A3. PHIL 100

Area B (9 units) : Scientific Inquiry & Quantitative Reasoning

- B1. Physical Science
- B2. Life Science
- B3. Laboratory Activity
- B4. Quantitative Reasoning (Must earn passing grade of C-/CR or better.)

Area C (9 units): Arts & Humanities - Minimum of three different disciplines as designated by course prefix (e.g., ART, THEA, MUS)

- C1. Arts
- C2. Humanities
- *.Additional Lower-division Area C Course in Arts (C1) or Humanities (C2)

Area D (9 units) : Social Sciences - Minimum of three different disciplines as designated by course prefix (e.g., ANTH, ECON, POSC)

- D1.
- D2.
- D3.

Area E (3 units) : Lifelong Learning and Self-Development

- E.
- Second Composition : Requires completion of GE A2 with a C-/CR or better. Must be completed before attaining junior standing.

Writing II. University Writing Skills Requirement

UWSR. Writing Skills Test (WST) or First and/or Second Tier Courses

U.S. Code (American Institutions Requirement) - Two courses (6 units) covering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S. Constitution), and US-3 (California State & Local Government).

- Code 1.
- Code 2.

Upper Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)

B6. Upper-division Science Inquiry and Quantitative Reasoning

C4. Upper-division Arts OR Humanities

D4. Upper-division Social Sciences

Overlay Requirements (9 units): Courses may be upper or lower division, and GE or major

- Diversity (Div)
- Social Justice (SJ)
- Sustainability (S)