

Degree: Statistics, B.S.: Data Science Concentration				
Requirement Area	Course	Course Title	Prerequisites	Units
<b>First Semester</b>				
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
			<b>Total:</b>	14
<b>Second Semester</b>				
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
			<b>Total:</b>	15
<b>Third Semester</b>				
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
			<b>Total:</b>	16
<b>Fourth Semester</b>				
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
			<b>Total:</b>	15
<b>Fifth Semester</b>				
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
			<b>Total:</b>	15
<b>Sixth Semester</b>				
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
			<b>Total:</b>	15
<b>Seventh Semester</b>				
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
			<b>Total:</b>	15
<b>Eighth Semester</b>				
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
			<b>Total:</b>	15
<b>Total Units:</b>				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)	
<input type="checkbox"/> <a href="#">A1. COMM 100 or 104, MLL 111</a>	
<input type="checkbox"/> <a href="#">A2. ENGL 101, 102, or 104</a>	
<input type="checkbox"/> <a href="#">A3. PHIL 100</a>	
Area B (9 units) : Scientific Inquiry & Quantitative Reasoning	
<input type="checkbox"/> <a href="#">B1. Physical Science</a>	
<input type="checkbox"/> <a href="#">B2. Life Science</a>	
<input type="checkbox"/> <a href="#">B3. Laboratory Activity</a>	
<input type="checkbox"/> <a href="#">B4. Quantitative Reasoning (Must earn passing grade of C-/CR or better.)</a>	
Area C (9 units): Arts & Humanities - Minimum of three different disciplines as designated by course prefix (e.g., ART, THEA, MUS)	
<input type="checkbox"/> <a href="#">C1. Arts</a>	
<input type="checkbox"/> <a href="#">C2. Humanities</a>	
<input type="checkbox"/> *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)	
<input type="checkbox"/> <a href="#">D1.</a>	
<input type="checkbox"/> <a href="#">D2.</a>	
<input type="checkbox"/> <a href="#">D3.</a>	
Area E (3 units) : Lifelong Learning and Self-Development	
<input type="checkbox"/> <a href="#">E.</a>	
Second Composition : Requires completion of GE A2 with a C-/CR or better. Must be completed before attaining junior standing.	
<input type="checkbox"/> <a href="#">Writing II.</a>	
University Writing Skills Requirement	
<input type="checkbox"/> <a href="#">UWSR. Writing Skills Test (WST) or First and/or Second Tier Courses.</a>	
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).	
<input type="checkbox"/> <a href="#">Code 1.</a>	
<input type="checkbox"/> <a href="#">Code 2.</a>	
Upper Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR)	
<input type="checkbox"/> <a href="#">B6. Upper-division Science Inquiry and Quantitative Reasoning</a>	
<input type="checkbox"/> <a href="#">C4. Upper-division Arts OR Humanities</a>	
<input type="checkbox"/> <a href="#">D4. Upper-division Social Sciences</a>	
Overlay Requirements (9 units): Courses may be upper or lower division, and GE or major	
<input type="checkbox"/> <a href="#">Diversity (Div)</a>	
<input type="checkbox"/> <a href="#">Social Justice (SJ)</a>	
<input type="checkbox"/> <a href="#">Sustainability (S)</a>	