Degree: Statistics, B.S.: Data Science Concentration 23-24	tics, B.S.: Data Science Concentr	ation 23-24
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Requirement Area	Course	Course Title	Droroguicitos	Unit
Requirement Area	Course	Course Title First Semester (FALL)	Prerequisites	Unit
E	SCI 130	Connecting to STEM Majors		
A1 or A3		Oral Communication or Critical Thinking		
			One from the following: Satisfactory score of 78 or higher on Mathematics Placement Exam, MATH 120 or MATH	
B4/LD Major	MATH 130	Calculus I	125 (either course with grade C- or better).	
C1 or C2		Arts or Humanities	,	
D1/Code 1		Social Science/U.S Code (1,2)		
		Second Semester (SPRING)	Total:	1
		Second Semester (SFRING)		
A2		Written Communication		
C1 or C2		Arts or Humanities		
D2 LD Major	CS 100	Social Science Programming for Everyone		
	C3 100	Programming for Everyone		
Elective			Total:	
		Third Semester (FALL)	Total:	_
E				
A1 or A3		Oral Communication or Critical Thinking		
Add'l C1 or C2* B2/B3		Arts or Humanities Life Science/Laboratory Science		
02,03		Enc Science/Laboratory Science		
Second Composition	ENGL 200	College Writing II		
LD Major	CS 200	Advanced Programming for Everyone	CS 100 Total:	:
		Fourth Semester (SPRING)	iotai.	<u> </u>
E .		Ethnic Studies		
B1/B3		Physical Science/Laboratory Science		
,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Completion of GE	
UD Major	STAT 315	Exploring and Analyzing Data	area B4	
Elective				
Elective				
		Fifth Semester (FALL)	Total:	1
		ritti Semester (rALL)		
UD-B/Overlay				
			One of: MATH 115, MATH 120, MATH	
UD Major	STAT 330	Statistical Inference	180.	
Code 2		U.S. Code (1,3)		
Concentration Elective				
UWR				
			Total:	:
UD D (0 l.		Sixth Semester (SPRING)		
UD-D/Overlay UD Major	STAT 321	Probability Through Simulation	CS 100	
UD Major	STAT 331	Introduction to Analysis of Variance	STAT 316 or STAT 330	
UD Major	STAT 432	Introduction to Linear Regression and Logistic Regress	STAT 330 or STAT 310	
Concentration Elective				
			Total:	
		Seventh Semester (FALL)		
UD-C/Overlay				_
UD Major Elective	-		One of: STAT 110.	
			STAT 303, STAT 310,	
Concentration Elective	STAT 450	Introduction to R for Data Science	STAT 315, STAT 330 STAT 303 or STAT 310	
			or STAT 316 or STAT	
Concentration Elective	STAT 451	Introduction to Data Visualization	330.	_
UD Major	STAT 495	Data Analysis with SAS	STAT 330 Total:	:
		Eighth Semester (SPRING)	.c.a	
			One of: STAT 110,	
Concentration Elective	STAT 452	Introduction to Statistical Learning	STAT 303, STAT 310, STAT 315, STAT 330.	
UD Major Elective	31M1 434	The state of the s	5.71 313, 31A1 330.	
UD Major Elective				
UD Free Elective				
UD Free Elective		-	Takalı	-
		-	Total:	1
Total Units:				

Note: No changes to, or from, the credit/no credit pattern are permitted after the Grade Type Change period. There are no exceptions to this rule. Courses in a student's major department, regardless of course prefix, may not be taken "CR/NC," unless that is the only grading pattern in the course.

	SUEB General Breadth and Graduation Requirement Checklist A (9 units): Communication in the English Language & Critical Thinkin
	(Must earn passing grade of C-/CR or better)
	. COMM 100 or 104, MLL 111
	. 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
	. Quantitative Reasoning (Must earn passing grade of C-/CR or better.)
Area	C (9 units): Arts & Humanities - Minimum of two different discipline
□ C1	as designated by course prefix (e.g., ART, THEA, MUS)
	. Humanities
	dditional Lower-division Area C Course in Arts (C1) or Humanities (C2)
	D (6 units) : Social Sciences - Minimum of two different disciplines a
	designated by course prefix (e.g., ANTH, ECON, POSC)
□ D1	
□ D2	
	Area E (3 units): Lifelong Learning and Self-Development
□ E.	
	Area F (3 units): Ethnic Studies
☐ F.	10
Secoi	nd Composition : Requires completion of GE A2 with a C-/CR or bette
□ so	Must be completed before attaining junior standing. cond Composition
_ 36	University Writing Requirement
□ uv	
	S. Code (American Institutions Requirement) - Two courses (6 units)
	ering three U.S. Code Requirements of US-1 (U.S. History), US-2 (U.S.
	Constitution), and US-3 (California State & Local Government).
□ Co	Constitution), and US-3 (California State & Local Government). de 1.
	de 1.
□ Co	de 1. de 2.
□ Co	de 1. de 2. r Division GE Requirements (9 units): Should be taken after completi
□ Co Uppe	de 1. de 2. r Division GE Requirements (9 units): Should be taken after completi of A1, A2, A3, and B4 with a C- (CR)
□ Co Uppei	de 1. de 2. r Division GE Requirements (9 units): Should be taken after completi of A1, A2, A3, and B4 with a C- (CR) -B. Upper-division Science Inquiry and Quantitative Reasoning
□ Co Upper □ UD	de 1. de 2. r Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and 84 with a C- (CR) -B. Upper-division Science Inquiry and Quantitative Reasoning -C.Upper-division Arts OR Humanities
☐ Co Upper	de 1. de 2. r Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) b-B. Upper-division Science Inquiry and Quantitative Reasoning C-Upper-division Arts OR Humanities b-D. Upper-division Social Sciences
☐ Co Upper	de 1. de 2. r Division GE Requirements (9 units): Should be taken after completic of A1, A2, A3, and B4 with a C- (CR) -B. Upper-division Science Inquiry and Quantitative Reasoning -C. Upper-division Arts OR Humanities -D. Upper-division Social Sciences rlay Requirements (9 units): Courses may be upper or lower division
☐ Co Upper	de 1. de 2. r Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) b-B. Upper-division Science Inquiry and Quantitative Reasoning C-Upper-division Arts OR Humanities b-D. Upper-division Social Sciences
□ Co Upper □ UD □ UD □ UD □ UD	de 2. r Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) -B. Upper-division Science Inquiry and Quantitative Reasoning -C. Upper-division Arts OR Humanities -D. Upper-division Social Sciences rlay Requirements (9 units): Courses may be upper or lower division, and GE or major
Co Upper UD UD UD Ove	de 1. de 2. r Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) -B. Upper-division Science Inquiry and Quantitative Reasoning -C-Upper-division Arts OR Humanities -D. Upper-division Social Sciences rlay Requirements (9 units): Courses may be upper or lower division and GE or major
□ Co Upper □ UD □ UD □ UD □ UD □ UD □ Soo	de 1. de 2. r Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) -B. Upper-division Science Inquiry and Quantitative Reasoning -C. Upper-division Arts OR Humanities -D. Upper-division Social Sciences rlay Requirements (9 units): Courses may be upper or lower division and GE or major versity (Div) cial Justice (SJ)
□ Co Upper □ UD □ UD □ UD □ UD □ UD □ Soo	de 1. de 2. r Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) b-B. Upper-division Science Inquiry and Quantitative Reasoning b-C. Upper-division Arts OR Humanities b-D. Upper-division Social Sciences rlay Requirements (9 units): Courses may be upper or lower division and GE or major versity (Div) cial Justice (SJ) stainability (S)
□ Co Upper □ UD □ UD □ UD □ UD □ Sor	de 1. de 2. r Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) -B. Upper-division Science Inquiry and Quantitative Reasoning -C. Upper-division Arts OR Humanities -D. Upper-division Social Sciences rlay Requirements (9 units): Courses may be upper or lower division, and GE or major versity (Div) cial Justice (SJ) stainability (S) Data Science Concentration
Comp	de 1. de 2. r Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) -B. Upper-division Science Inquiry and Quantitative Reasoning -C. Upper-division Arts OR Humanities -D. Upper-division Social Sciences rlay Requirements (9 units): Courses may be upper or lower division and GE or major versity (Div) cial Justice (SI) stainability (5) Data Science Concentration lete fifteen (15) units of approved courses in Computer Science and/o
Compper	de 1. de 2. r Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) DeB. Upper-division Science Inquiry and Quantitative Reasoning C-Upper-division Arts OR Humanities D-D. Upper-division Social Sciences rlay Requirements (9 units): Courses may be upper or lower division and GE or major versity (Div) cial Justice (SJ) stainability (S) Data Science Concentration lete fifteen (15) units of approved courses in Computer Science and/otics as follows:
Comppei	de 1. de 2. r Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) b-B. Upper-division Science Inquiry and Quantitative Reasoning b-C. Upper-division Arts OR Humanities c-D. Upper-division Social Sciences rlay Requirements (9 units): Courses may be upper or lower division and GE or major versity (Div) cial Justice (SJ) stainability (S) Data Science Concentration lete fifteen (15) units of approved courses in Computer Science and/o tics as follows: 450 - Introduction to R for Data Science Units: 3
Comppetition Composition Compo	de 1. de 2. r Division GE Requirements (9 units): Should be taken after completic of A1, A2, A3, and B4 with a C- (CR) -B. Upper-division Science Inquiry and Quantitative Reasoning -C. Upper-division Arts OR Humanities -D. Upper-division Social Sciences rlay Requirements (9 units): Courses may be upper or lower division and GE or major
Competition Compet	de 1. de 2. r Division GE Requirements (9 units): Should be taken after completion of A1, A2, A3, and B4 with a C- (CR) -B. Upper-division Science Inquiry and Quantitative Reasoning -C. Upper-division Social Sciences rlay Requirements (9 units): Courses may be upper or lower division and GE or major versity (Div) cial Justice (SJ) stainability (S) Data Science Concentration lete fifteen (15) units of approved courses in Computer Science and/otics as follows: 1850 - Introduction to R for Data Science Units: 3 151 - Introduction to Data Visualization Units: 3 152 - Introduction to Statistical Learning Units: 3
□ Co Upper □ UD □ UD □ UD Ove □ Div □ Son □ Statist STAT 4 An ad	de 1. de 2. r Division GE Requirements (9 units): Should be taken after completic of A1, A2, A3, and B4 with a C- (CR) -B. Upper-division Science Inquiry and Quantitative Reasoning -C. Upper-division Arts OR Humanities -D. Upper-division Social Sciences rlay Requirements (9 units): Courses may be upper or lower division and GE or major

*Students are required to take a minimum of 40 semester units as upper division (includes 9 units upper division GE)