Degree: Statistics, B.S.: Data Science Concentration 21-22				
Requirement Area	Course	Course Title	Prerequisites	Units
E	GS 101A	First Semester (FALL) 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	a cocci,	3
D1/Code 1		Social Science/U.S Code (1,2)	Total:	14
		Second Semester (SPRING)		l
-	CC 101D	Favordations of Correct II		
E A2	GS 101B	Foundations of Success II Written Communication		3
C1 or C2		Arts or Humanities		3
D2		Social Science		3
LD Major	CS 100	Programming for Everyone		3
Elective		· ·	Total:	2
		Third Semester (FALL)	rotal:	15
E A1 or A3		Oral Communication or Critical Thinking		1
Add'l C1 or C2*		Arts or Humanities		3
B2/B3		Life Science/Laboratory Science		3
Second Composition	ENGL 200	College Writing II		3
LD Major	CS 200	Advanced Programming for Everyone	CS 100 Total:	3
		Fourth Semester (SPRING)		
F		Ethnic Studies		3
B1/B3		Physical Science/Laboratory Science		3
UD Major Elective	STAT 315	Exploring and Analyzing Data	Completion of GE area B4	3
Elective			Total:	15
LID D/Overden	Ī	Fifth Semester (FALL)	Ī	
UD-B/Overlay			One of: MATH 115, MATH 120, MATH	3
UD Major	STAT 330	Statistical Inference	180.	3
Code 2 Concentration Elective		U.S. Code (1,3)		3
Elective				3
		Sixth Semester (SPRING)	Total:	15
UD-D/Overlay	CTAT 224		CS 100	3
UD Major	STAT 321 STAT 331	Probability Through Simulation Introduction to Analysis of Variance		
UD Major UD Major	STAT 432	Introduction to Analysis of Variance Introduction to Linear Regression and Logistic Regress	STAT 316 or STAT 330 i STAT 330 or STAT 310	3
Concentration Elective	102	The state of the s		3
		Seventh Semester (FALL)	Total:	15
UD-C/Overlay				3
UD Major Elective Concentration Elective	STAT 450	Introduction to R for Data Science	One of: STAT 110, STAT 303, STAT 310, STAT 315, STAT 330	3
			STAT 303 or STAT 310 or STAT 316 or STAT	
Concentration Elective UD Major	STAT 451 STAT 495	Introduction to Data Visualization Data Analysis with SAS	330. STAT 330	3
		Eighth Semester (SPRING)	Total:	15
		Lighth Jennester (JPKING)	One of: STAT 110,	
Concentration Elective	STAT 452	Introduction to Statistical Learning	STAT 303, STAT 310, STAT 315, STAT 330.	3
UD Major Elective UD Major Elective				3 3
Elective				3
Elective			Total:	15
Total Units:				120

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.

CSUEB General Breadth and Graduation Requirement Checklist
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, MLL 111
□ A2. ENGL 101, 102, or 104 □ A3. PHIL 100
<u> </u>
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-
<u>/CR or better.)</u>
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 (6 units): Social Sciences - Minimum of three different
disciplines as 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
□ <u>F.</u>
Second Composition : Requires completion of GE A2 with a C-/CR
or better. Must be completed before attaining junior standing.
☐ Second Composition 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 1. □ Code 2.
Upper Division GE Requirements (9 units): Should be taken after
completion of A1, A2, A3, and B4 with a C- (CR) UD-B. Upper-division Science Inquiry and Quantitative
Reasoning
☐ UD-C.Upper-division Arts OR Humanities
☐ UD-D. Upper-division Social Sciences
☐ UD-D. Upper-division Social Sciences Overlay Requirements (9 units): Courses may be upper or lower division, and GE or major ☐ Diversity (Div)
□ UD-D. Upper-division Social Sciences Overlay Requirements (9 units): Courses may be upper or lower division, and GE or major □ Diversity (Div) □ Social Justice (SJ)
☐ UD-D. Upper-division Social Sciences Overlay Requirements (9 units): Courses may be upper or lower division, and GE or major ☐ Diversity (Div)
□ UD-D. 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)
□ UD-D. 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) Data Science Concentration
□ UD-D. 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) Data Science Concentration Complete fifteen (15) units of approved courses in Computer
□ UD-D. 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) Data Science Concentration Complete fifteen (15) units of approved courses in Computer Science and/or Statistics as follows: STAT 450 - Introduction to R for Data Science Units: 3
□ UD-D. 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) Data Science Concentration Complete fifteen (15) units of approved courses in Computer Science and/or Statistics as follows: STAT 450 - Introduction to R for Data Science Units: 3 STAT 451 - Introduction to Data Visualization Units: 3
□ UD-D. 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)