

Data Science, B.S. 26-27				
Requirement Area	Course	Course Title	Prerequisites	Units
First Semester (FALL)				
1C		Oral Communication		3
LD Major/ Area 2	DATA 105	Math for Data Science I		5
3A or 3B		Arts or Humanities		3
Area 4/Code 1		Social Science /U.S. Code (1, 2)		3
LD Major	DATA 130	Data Science Profession		2
			Total:	16
Second Semester (SPRING)				
1A		Written Communication		3
GE 4		Social Science		3
LD Major	MATH 205	Math for Data Science II	MATH 105 or MATH 130	3
LD Major	CS 100	Programming for Everyone		3
Free Elective				4
			Total:	16
Third Semester (FALL)				
3A or 3B		Arts or Humanities		3
1B/Second Comp		Critical Thinking and Composition	GE 1A	3
5B/5C		Life Science/Laboratory Science		4
LD Major		Pathway Course # 1		3
			Total:	13
Fourth Semester (SPRING)				
Free Elective				3
Area 6		Ethnic Studies		3
5A		Physical Science/Laboratory Science		3
LD Major	STAT 215	Intro to Data Science	Completion of GE Area 2	3
Free Elective				3
			Total:	15
Fifth Semester (FALL)				
UD- Area 5/Overlay			Completion of GE 1A, 1B, 1C, 2	3
UD Major	STAT 330	Statistical Inference	MATH 105 or MATH 115, MATH 120 or MATH 180	3
Code 2		U.S. Code (1,3) or (2,3)		3
UD Major	STAT 312	Data Analysis with Python	STAT 215	3
UWR			Completion of second composition	3
			Total:	15
Sixth Semester (SPRING)				
UD- Area 4/Overlay			Completion of GE 1A, 1B, 1C, 2	3
UD Major	STAT 321	Probability through Simulation	MATH 105 or CS 101	3
UD Major	STAT 450	Intro to R for Data Science	One of STAT 110, STAT 303, STAT 215, STAT 330	3
UD Major	CS 200 or CS 300	Database for Everyone		3
UD Major	STAT 432	Intro to Linear Regression and Logistics Regression	STAT 330 or STAT 310	3
			Total:	15
Seventh Semester (FALL)				
UD-Area 3/Overlay			Completion of GE 1A, 1B, 1C, 2	3
UD Major	STAT 451	Intro to Data Viz	STAT 303 or STAT 215 or STAT 310 or STAT 316 or STAT 330	3
UD Major	DATA 340	Data Science Ethics	STAT 215 or STAT 330	3
UD Major Elective		Pathway course # 2		3
UD Major Elective		Pathway course # 3		3
			Total:	15
Eighth Semester (SPRING)				
UD Major	STAT 452	Intro to Statistical Learning	One of STAT 110, STAT 303, STAT 215, STAT 330	3
UD Major	DATA 492	Capstone Project	STAT 432	3
UD Major Elective		Pathway course # 4		3
UD Free Elective				3
UD Free Elective				3
			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 1 (9 units): English Communication
<input type="checkbox"/> 1A - Lower Division English Composition
<input type="checkbox"/> 1B - Lower Division Critical Thinking and Composition
<input type="checkbox"/> 1C - Lower Division Oral Communication
Area 2 (3 units): Mathematical Concepts and Quantitative Reasoning
<input type="checkbox"/> Area 2 - Mathematical Concepts and Quantitative Reasoning
Area 3 (6 units): Arts & Humanities - Minimum of two different disciplines as designated by course prefix (e.g., ART, THEA, MUS)
<input type="checkbox"/> 3A - Arts and Humanities (Arts)
<input type="checkbox"/> 3B - Arts and Humanities (Humanities)
Area 4 (6 units): Social and Behavioral Sciences - Minimum of two different disciplines as designated by course prefix (e.g., ANTH, ECON, POSC)
<input type="checkbox"/> Area 4 - Lower Division Social and Behavioral Sciences
<input type="checkbox"/> Area 4 - Lower Division Social and Behavioral Sciences
Area 5 (7 units): Physical and Biological Sciences
<input type="checkbox"/> 5A - Lower Division Physical and Biological Sciences (Physical)
<input type="checkbox"/> 5B - Lower Division Physical and Biological Sciences (Biological)
<input type="checkbox"/> 5C - Lower Division Physical and Biological Sciences (Laboratory) -- May be embedded in 5A or 5B course, as long as 7 units met for lower-division Subject Area 5.
Area 6 (3 units): Ethnic Studies
<input type="checkbox"/> Area 6 - Ethnic Studies
Second Composition : Second Composition (Required as part of 1B for 2025-26 or later catalog)
<input type="checkbox"/> Second Composition
University Writing Requirement (3-4 units)
<input type="checkbox"/> UWR
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"/> Code 1
<input type="checkbox"/> Code 2
Upper Division GE Requirements (9 units): Should be taken after completion of 1A, 1B, 1C, and Area 2 with a C- (CR)
<input type="checkbox"/> UD- Area 3 - Upper Division Arts or Humanities
<input type="checkbox"/> UD- Area 4 - Upper Division Social and Behavioral Sciences
<input type="checkbox"/> UD- Area 5 - Upper Division Science or Mathematical Concepts/Quantitative Reasoning
Overlay Requirements (9 units): Courses may be upper or lower division, and GE or major
<input type="checkbox"/> Diversity (Div)
<input type="checkbox"/> Social Justice (SJ)
<input type="checkbox"/> Sustainability (S)