

Computer Science ADT to BS - Statistics - Data Science Concentration

Title	C-ID Designation	C-ID Units	Double	CSUEB Course	Units
Programming Concepts & Methodology I (CS1)	COMP 122	3			
Programming Concepts & Methodology II (CS2)	COMP 132	3			
Computer Architecture & Organization	COMP 142	3			
Discrete Structures	COMP 152	3			
Choose 1					
Single Variable Calculus I and II – Early Transcendentals (min. 8 units)		8			
or					
Single Variable Calculus I and II – Late Transcendentals (min. 8 units)		8			
or	MATH 210 and 220	8			
Single Variable Calculus Sequence (min. 8 units)					
or					
MATH 211 and 221		8			
or					
MATH 900S					
Choose 1					
PHYS 205	4				
	4				
(min. 4 units)					
or					
Cell and Molecular Biology		4			
(min. 4 units)					
or					
Organismal Biology		4			
Choose 1					
PHYS 210		4			



**GRADUATION REQUIREMENTS** These should be fulfilled at the Community College, however if not taken at the Community College, they must be completed at CSU East Bay

US History, Constitution & American Ideals			
First Category US-1			0-3
Second Category US-2			0-3
Third Category US-3			0-3
		Total Units	0-9

These courses must be taken at CSU East Bay

Please note: A minimum of three courses in the Upper Division General Education pattern must have a topic/learning outcome oriented toward one of the following topic areas (overlays): Diversity (DIV), Social Justice (SJ), or Sustainability (S).

Upper Division GE/Overlay	Courses	Overlay	Units
GE-UD-B			3
GE-UD-C			3
GE-UD-D			3
		Total Units	9

University Writing Requirement	Course	GE/Overlay	Units
UWR			
		Total Units	3

Introductory Co	Course	GE/Overlay	Units
Basic lower-division requirements for 9-10 units.			
Select one (1) of the following (CS 100 is recommended for Data Science Concentration):			
CS 100*	Programming for Everyone		3
MATH 130*	Calculus I		





Computer Science ADT to BS - Statistics - Data Science Concentration

FIRST SEMESTER JUNIOR YEAR (FALL)			
UDGE UD-B	COURSE:	OVERLAY:	3
UD Major	STAT 330	Statistical Interference	3
*UD Major OR UD Elective	STAT 320	Introduction to Probability Theory I	3
CONCENTRATIO N			3
UWR			3
		<i>TOTAL:</i>	15
SECOND SEMESTER JUNIOR YEAR (SPRING)			
UDGE UD-D	COURSE:	OVERLAY:	3
UD Major	STAT 331	Introduction to Analysis of Variance	3
UD Major	STAT 432	Introduction to Linear Regression and Logistic Regression	3
*UD Major OR UD Elective	STAT 321	Probability Through Simulation	3
UD Elective			3
		<i>TOTAL:</i>	15
THIRD SEMESTER SENIOR YEAR (FALL)			
Check your MyCSUEB "Degree Audit Report" (DAR) and email any discrepancies to The ADT ADVISOR.			
UDGE UD-C	COURSE:	OVERLAY:	3
UD Major	STAT 495	Data Analysis with SAS	3
UD Elective			3
CONCENTRATIO N	STAT 450	Introduction to R for Data Science	3
CONCENTRATIO N	STAT 451	Introduction to Data Visualization	3
		<i>TOTAL:</i>	15
FOURTH SEMESTER SENIOR YEAR (SPRING)			
See the ADT ADVISOR and apply for graduation through MyCSUEB by the posted deadline, available at Important Dates			
CONCENTRATION	STAT 452	Introduction to Statistical Learning	3
CONCENTRATION			3
FREE ELECT			3
FREE ELECT			3
FREE ELECT			3
		<i>TOTAL:</i>	15
<i>GRAND TOTAL:</i>			60