			Double		
		C-ID	Counted for		
Title	C-ID Units	Designation	GE	CSUEB Course	Units
Single Variable Calculus I – Early Transcendentals Or	Math 210	4			
Single Variable Calculus I – Late Transcendentals	or Math 211				
Single Variable Calculus II – Early Transcendentals	Math 220	4			
Single Variable Calculus II – Late Transcendentals	Or Math 221				
Multivariable Calculus	Nath 220	4			
	IVIALII 250	4			
Single Variable Calculus	Math 0005	>0			
Sequence (2 sem/3 guarters)	Math 9003	≥8			
Or	or				
Single Variable Calculus I – Early Transcendentals And	Math 210				
Single Variable Calculus II – Early Transcendentals	and				
Or	Math 220				
And	or				
Single Variable Calculus II – Late Transcendentals	Math 211				
	and				
Multiversitely Coloring	Math 221				
	Iviath 230	4			
UR Single Verieble and Multiverieble Colevius Servence (2					
Single variable and Multivariable Calculus Sequence (3		≥12			
Choose a minimum of 6 units from below with at least	3 units from Group A	۸.			
Group A Provides Depth of understanding in subject					
major					
Ordinary Differential Equations	Math 240	3			
Introduction to Linear Algebra	Math 250	3			
OR					
Differential Equations and Linear Algebra	Math 910S	5			
Group B Expands application of discipline					
Discrete Math	Math 160	3			
Calculus-Based Physics for	Physics 205	4			
Scientists and Engineers: A (Any course articulated as					
Mathematical Computing Systems	See cample	1			
Computer Programming	articulated preparati	2			
Proof		2			
Introduction to Statictics	Moth 110	2			
		ی 10			
		10			
		39			
Double Counting GE		4			
Elective		7*			
Total Units		60			
*Can be used to fulfill CSU American Institutions or any additional major requirements					

GRADUATION REQUI	REMENTS These should be fulfilled at the the Community College, they must be con	Community Constant Co	ollege, J East Bay			
	US History. Constitution & American Ideals	•				
First Category US-1	<i>p</i>		0-3			
Second Category US-2			0-3			
Third Category US-3			0-3			
		Total Units	0_9			
	hese courses must be taken at CSU Fast Ba	v	0,3			
Please note: A minimum of th topic/learning outcomeoriented	ree courses in the Upper Division General E d toward one of the following topic areas (o Justice (SJ), or Sustainability (S).	ducation patte verlays): Dive	ern must have a rsity (DIV), Social			
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 Core	Course	GE/Overlay	Units			
Basic lower-division requirements f	or 9-10 units.					
Select one (1) of the following (CS	100 is recommended for Data Science Concent	ration):				
CS 100*	Programming for Everyone		3			
MATH 130*	Calculus I	GE-B4	4			
Select two (2) courses from the follo	Select two (2) courses from the following (CS 200 is recommended for Data Science Concentration):					
CS 200*	Advanced Programming for Everyone		3			
MATH 131*	Calculus II		3			
STAT 303	Statistical Methods in Biology		3			
*Completeted at a CCC		Total Units	0-10			
Advanced Core	Course	GE/Overlay	Units			
The following courses for 24 units a	are required as outlined below:					
Take all of the following:						

STAT 330	Statistical Inference		3
STAT 331	Introduction to Analysis of Variance		3
STAT 432	Introduction to Linear Regression and Logistic	Regression	3
STAT 495	Data Analysis with SAS		3
Select one (1) of the following (STA	T 321 recommended for Data Science Concent	ration):	
STAT 320	Introduction to Probability Theory I		3
STAT 321	Probability Through Simulation		3
Select three (3) Elective Courses fr	om the following:	•	
STAT 351	Sampling Procedures for Surveys		3
STAT 450	Introduction to R for Data Science (Cannot be double-counted for students in the Data Science Concentration)		3
STAT 451	Introduction to Data Visualization (Cannot be double-counted for students in the Data Science Concentration)		3
STAT 452	Introduction to Statistical Learning (Cannot be double-counted for students in the Data Science Concentration)		3
STAT 460	Advanced Statistical Package Usage		3
STAT 473	Introduction to Nonparametric Statistics		3
STAT 474	Introduction to Time Series and Forecasting		3
STAT 475	Introduction to Stochastic Processes		3
STAT 481	Bayesian Statistics		3
		Total Units	24
Emphasis Coursework			
Only students NOT completing the Complete one (1) of the following for	Data Science concentration are required to com or 15 units:	plete an emph	asis area.
Fifteen (15) units of approved Statis be included in these 15 units and is program in Statistics.	stics courses in addition to those used for the re especially recommended for students wishing t	quirements abo to apply to the i	ove. MATH 230 may master's degree
OR			
Fifteen (15) units of approved Math	ematics courses in addition to those used for the	e requirements	above. MATH 230 m
OR			
Fifteen (15) units of approved Com	puter Science courses in addition to those used	for the require	ments above.
OR			
Fifteen (15) units of approved cours Anthropology, Biological Sciences, Sciences, Health Sciences, Physics and Biostatistics. To gain departme be judged to constitute a coherent courses not counted above, except	ses in an approved area. Areas currently approv Business Administration, Chemistry, Economics s, Psychology, Sociology. For other areas, conta ntal approval, these courses must include at lea program of study. (With the approval of the depa STAT 310 and STAT 303 may be applied toward	ed include the , Geography, G ict the Departm st one upper d artment, upper d d these fifteen	following: Seological ient of Statistics ivision course and division Statistics units.)
		Total Units:	15

ADDITIONAL COURSE(S) to MEET 60 UNITS			Units	
These courses may be additional major courses or prerequisites taken at the Community College.				
Free Elective Elective			9	
		Total Units	9	
		Grand Total:	60	

FIRST SEMESTER JUNIOR YEAR (FALL)					
UDGE UD-B	COURSE:		OVERLAY:		3
UD Major	STAT 330		Statistical Inference		3
*UD Major OR UD Elective	STAT 320		Introduction to P	Probability Theory I	3
Area of Emphasis					3
UWR					3
				TOTAL:	15
		SECOND SEM	IESTER JUNIOR YE	AR (SPRING)	
UDGE UD-D	COURSE:		OVERLAY:		3
UD Major	STAT 331		Introduction to Analysis of Variance		3
UD Maior	STAT 432		Introduction to L Regression	inear Regression and Logistic	3
*UD Major OR					
UD Elective	STAT 321		Probability Throu	ugh Simulation	3
UD Elective					3
				TOTAL:	15
	•	THIRD SEN	AESTER SENIOR YI	EAR (FALL)	
Check yo	our MyCSUEB "De	gree Audit Repor	rt" (DAR) and ema	ail any discrepancies to The ADT A	DVISOR.
UDGE UD-C	COURSE: OVERLAY: 3				
UD Major	STAT 495		Data Analysis with SAS		3
UD Elective					3
Area of Emphasis Elective					3
Area of Emphasis					
Elective					3
				TOTAL:	15
		FOURTH SEM	IESTER SENIOR YE	AR (SPRING)	
See the ADT A	DVISOR and apply	for graduation t	hrough MyCSUEE Dates	B by the posted deadline, available	e at Important
Area of Emphasi	s Elective				3
Area of Emphasi	s Elective				3
FREE ELECT					3
FREE ELECT					3
FREE ELECT					3
				TOTAL:	15
				GRAND TOTAL:	60