ADT Computer Science –	Sem.	
60 Sem. Units	Units	Community College Courses
		CSU general education certification requires completion of all
CSUGE or IGETC	39	requirements in Areas A through E, approximately 39 units
AREA D REQUIREMENT:		US-1:
US History, Constitution & American Ideals Code		US-2:
Requirement	3-9	US-3:
		DIV:
Diversity/Social Justice/Sustainability		SJ:
Can be fulfilled in area C or D	3-9	SUS:
Second Composition (Comp II)		
Any Composition course with ENGL 100 as a prerequisite	3	
The following areas are for the CID TM	C/Courses a	nd matching Community College Courses
Required Core (C-ID)	7	Community College Courses
COMP 152 Discrete Structures	3	
MATH 210 Single Variable Calculus I - Early		
Transcendentals (4 units)		
or		
MATH 211 Single Variable Calculus I - Late		
Transcendentals (4 units)		
or	4	
Any math course that is articulated preparation for the	Counted	
business analytics major at CSUEB	in GE	
LIST A: Choose 1 course	3	
COMP 122 Programming Concepts & Methodology I	3	
Any computer programming course that is articulated		
preparation for the business analytics major at CSUEB	3	
Lower Division Electives	12	
Any five (5) courses that are articulated preparation for		
the business analytics major at CSUEB	12	
Total Units ADT *COMPUTER SCIENCE*	60	

PLEASE NOTE: This page assumes Semester Units.

CSUEB: B.S. BUSINESS ANALYTICS	Semester	NOTES							
Complete Degree in 60 Semester Units	UNITS	NOTES							
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	0-9								
1) First Category US-1	0-3								
2) Second Category US-2	0-3								
3) Third Category US-3	0-3								
These courses must be taken at CSU East Bay									
Upper Division GE									
See catalog	9	CSUEB COURSES							
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, Social Justice, or Sustainability.									
Area B6 Upper Division Science course	3	Course: BAN 320 OVERLAY: Sustainability							
Area C4 Upper Division Humanities course	3	Course: OVERLAY:							
Area D4 Upper Division Social Sciences course	3	Course: MKTG 305 OVERLAY:							
Upper Division Major Core	24								
BAN 310 Data Analysis with Python I		Prerequisites: will change to CS 100 or ITM 330							
	3	(currently MATH 130 and CS 100)							
BAN 315 Data Analysis with Python II	3	Prerequisites: BAN 310							
BAN 320 Optimization and Simulation for Business		G.E./G.R. Area: B6; Sustainability;							
Applications	UD GE	Prerequisites: CS 100 (or CS 101)							
BAN 331 Database Management and SQL	3	Prerequisites: BAN 310 or ITM 300							
BAN 340 Machine Learning for Business									
Applications	3	Prerequisites: BAN 315							
BAN 350 Data Wrangling and Data Pipeline	3	Prerequisites: BAN 310							
MKTG 305 Business Communication		G.E./G.R. Area: D4; UWSR							
	UD GE	Prerequisites: Junior standing							
BAN 449 Big Data Technology and Business Applications	2								
BAN 441 Business Data Visualization and	3	Prerequisites: BAN 315 or ITM 330							
Reporting	3	Social Justice Prerequisites: BAN 310 or ITM 300							
	<u>9</u>								
Concentration Required Courses MKTG 300 Marketing Principles	3								
MKTG 310 Marketing Research		Drozogujejteci NAKTC 200							
	3	Prerequisites: MKTG 300							
MKTG 312 Marketing Analytics Concentration Elective Courses	3	Prerequisites: MKTG 300							
Choose four (3) courses	9								
MKTG 420 Product, Service, and Brand									
Management									
MKTG 427 Digital Marketing and Social Media									
MKTG 432 Marketing for New Ventures									
MKTG 434 Social and Digital Media Analytics									
Capstone	3								
BAN 499 - Capstone Seminar	3	BAN 340 and BAN 441							
	3	DAIN 340 dHU DAIN 441							

Upper Division Free Elective	12	
Complete twelve (12) units of Upper Division		
statistics, computer science, or business courses		
Total Semester Units at CSUEB	60	60

	FIRST SE	MESTER JUNIOR YEAR	
	Register to take the U	niversity Writing Skills Requirement	
UDGE C4	COURSE:	OVERLAY:	3
UD Major Core	BAN 310	Data Analysis with Python I	3
UD Major Core	BAN 315	Machine Learning for Business Analytics	3
UD Major Core	CS TBD		3
UD Major Core	МКТС 305	Business Communication	3
		TOTAL:	15
	SECOND S	EMESTER JUNIOR YEAR	
		ERSITY WRITING SKILLS TEST	
Major Core/UDGE B6	BAN 320	Optimization and Simulation for Business Applications	
/Sustainability			3
UD Major Core	BAN 331	Database Management and SQL	3
UD Major Core	BAN 340	Machine Learning for Business Applications	3
UD Major Core	BAN 350	Data Wrangling and Data Pipeline	3
Concentration	МКТБ 300	Marketing Principles	3
		TOTAL:	15
	THIRD SE	MESTER SENIOR YEAR	
		d the University Writing Skills Requirement.	
Check yo	ur MyCSUEB "Degree Audit Report	" (DAR) and email any discrepancies to The ADT ADVISER.	
Concentration	MKTG 310	Marketing Research	3
UD Major Core	BAN 441	Business Data Visualization and Reporting	
/Social Justice			3
UD Major Core	BAN 449	Big Data Technology and Business Applications	3
Concentration	MKTG 312	Marketing Analytics	3
Concentration Elect		Choose 1 from Elect List	3
		TOTAL:	15
	FOURTH S	EMESTER SENIOR YEAR	
See the ADT ADVI	SER and apply for graduation throu	gh MyCSUEB by the posted deadline, available at Important	Dates
UD Free Elective		Choose 1 UD statistics, computer, or business course	3
Concentration Elect		Choose 1 from Elect List	3
Concentration Elect		Choose 1 from Elect List	3
Major Capstone	BAN 499	Capstone Seminar	3
UD Free Elective		Choose 1 UD statistics, computer, or business course	3
		TOTAL:	15
		GRAND TOTAL:	60