COMPUTER SCIENCE ADT TO CSU EAST BAY BUSINESS ANALYTICS BS INFORMATION SYSTEM AND SUPPLY CHAIN ANALYTICS CONCENTRATION ROADMAP

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 o	nd matching Community College Courses
Required Core (C-ID)	7	Community College Courses
•		Community Conege 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)	4	
or	•	
Any math course that is articulated preparation for the	Counted in GE	
business analytics major at CSUEB		
LIST A: Choose 1 course	3	
COMP 122 Programming Concepts & Methodology I	3	
Any programming course that is articulated preparation		
for the business analytics major at CSUEB	3	
Lower Division Electives	15	
Any five (5) courses that are articulated preparation for		
the business analytics major at CSUEB	15	
Total Units ADT *COMPUTER SCIENCE*	60	

PLEASE NOTE: This page assumes Semester Units.

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	Semester UNITS	NOTES				
Complete Degree in 60 Semester Units	00	ld ha fulfillad at the Community Callage				
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 cours	ses must be	taken at CSU East Bay				
Upper Division GE						
See catalog	9	CSUEB COURSES				
		General Education pattern must have a topic/learning outcome				
oriented toward one of the following top	oic areas (ov	erlays): 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	3	Prerequisites: BAN 315 or ITM 330				
BAN 441 Business Data Visualization and Reporting	3	Social Justice Prerequisites: BAN 310 or ITM 300				
Concentration Required Courses	6	Trerequisites. DAN 310 of THM 300				
MGMT 364 Global Supply Chain Management	3	Divorcity				
ITM 336 Information Systems Development and	3	Diversity				
Management	3	Prerequisites: BAN 310 or ITM 300				
Concentration Elective Courses	<u> </u>					
Choose four (4) courses	12					
TM 446 Information Security						
MGMT 450 Project Management						
MGMT 455 AI Enabled Supply Chain and Logistics						
Analytics						
ITM 338 Cloud Computing and E-Commerce						
MGMT 365 Enterprise Resource Planning and Control						
MGMT 460 Healthcare Analytics						

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MGMT 465 Supply Chain Forecasting with Machine Learning		
ITM 445 Blockchain and Smart Contract		
CS 461 Artificial Intelligence		CS 301
Capstone	3	
BAN 499 Capstone Seminar	3	BAN 340 and BAN 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

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	FIRST SEI	MESTER JUNIOR YEAR	
	Register to take the Ur	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	MKTG 305	Business Communication	3
		TOTAL:	15
	SECOND S	EMESTER JUNIOR YEAR	
		ERSITY WRITING SKILLS TEST	
Major Core/UDGE B6 /Sustainability	BAN 320	Optimization and Simulation for Business Applications	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 /Diversity	MGMT 364	Global Supply Chain Management	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	ITM 336	Information Systems Development and Management	3
UD Major Core /Social Justice	BAN 441	Business Data Visualization and Reporting	3
UD Major Core	BAN 449	Big Data Technology and Business Applications	3
Concentration Elect		Choose 1 from Elect List	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