

Degree: Business Analytics, B.S.: Information System and Supply Chain Concentration 26-27				
Requirement Area	Course	Course Title	Prerequisites	Units
First Semester (FALL)				
1C		Oral Communication		3
1A		Written Communication		3
3A or 3B		Arts & Humanities		3
Area 4/Code 1		Social Science and U.S. Code (US 1,2)		3
Area 2/LD Major Core	MATH 130	Calculus I	One from the following: Satisfactory score of 78 or higher on Mathematics Placement Exam, MATH 120 or MATH 125 (either course with grade C- or better).	3
				Total:
Second Semester (SPRING)				
1B/Second Comp		Critical Thinking and Composition		3
Area 6		Ethnic Studies		3
LD Major Core	CS 100	Programming for Everyone		3
Elective				3
Elective				3
				Total:
Third Semester (FALL)				
5A/5B (& 5C)		Physical and Biological Sciences		3
Elective				3
Elective				3
Elective				3
Elective				3
				Total:
Fourth Semester (SPRING)				
5A/5B (& 5C)		Physical and Biological Sciences		4
3A or 3B		Arts & Humanities		3
Area 4/Code 2		Social Sciences and U.S. Code (1,3)		3
Elective				2
LD Major Core	CS/MATH 211	Discrete Structure	MATH 130 with grade C- or better	3
				Total:
Fifth Semester (FALL)				
UD Elective				3
UD Major Core	BAN 310	Data Analysis with Python I	MATH 130 and CS 100 (or CS 101)	3
UD Area 3/UD Elective		UD Arts OR Humanities	Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	3
UD Elective	ITM 330 *	Business Applications Programming *		3
Overlay -Diversity (Div) /Concentration	MGMT 364	Global Supply Chain Management		3
				Total:
Sixth Semester (SPRING)				
Concentration	ITM 336	Info System Development and Management	ITM 300 or BAN 310	3
UD Major Core	BAN 350	Data Wrangling and Data Pipeline	BAN 310	3
Overlay -Social Justice (SJ)/UD Major Core	BAN 441	Business Data Visualization and Reporting	BAN 310 or ITM 300	3
UD Area 4, UWR	MKTG 305W	Business Communication	Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	3
UD Areas 5/Overlay - Sustainability (S)/UD Major Core	BAN 320	Optimization and Simulation for Business Applications	Completion of GE Areas 1A, 1B, 1C and GE-2 with grade C- (CR) or better	3
				Total:
Seventh Semester (FALL)				
Concentration	ITM 336	Info System Development and Management		3
UD Major Core	BAN 331	Database management and SQL	BAN 310 or ITM 300	3
UD Major Core	BAN 315	Data Analysis with Python II	BAN 310	3
UD Major Core	BAN 449	Big Data Technology and Business Application	BAN 315 or ITM 330	3
Concentration				3
				Total:
Eighth Semester (SPRING)				
UD Major Core	BAN 340	Machine Learning for Business Applications	BAN 315	3
UD Elective				3
Concentration				3
Concentration				3
Major Capstone	BAN 499	Capstone Seminar	BAN 340 and BAN 441	3
				Total:
				Total Units:
				120

Note: All required courses must be taken at CSU East Bay and must be completed with grade "C" or better, unless otherwise noted.
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)

* For transfer students, may replace CS 100 or Computer Programming I