San Francisco Bay University (SFBU) & East Los Angeles College

SFBU Bachelor of Science in Computer Science (BSCS)				
SFBU Degree Requirements	**Required SFBU course or course category**	**Specific East Los Angeles College Course(s)**	**CSU GE Breadth[1] equivalent**	**C-ID[2] equivalent**

General Education Requirements (40 semester Units)

SFBU Degree Requirements	Required SFBU course or course category	Specific East Los Angeles College Course(s)	CSU GE Breadth[1] equivalent	C-ID[2] equivalent
English Language & Communications & Critical Thinking (12 semester credits)	**ENGL101** Expository Writing	**ENGLISH 101** College Reading & Composition I	A2	ENGL100
	ENGL115 Public Speaking	**COMM 101** Public Speaking	A1	COMM110
	ENGL425 Modern American Literature	**ENGLISH 208** American Literature II	C2	ENGL 135
	3 additional credits in area	Any course with a CSU GE A1, A2 and/or A3 designator	A1/A2/A3	n/a
Mathematics & Natural Sciences (16 semester credits in BSCS)	**MATH201** Calculus I	**MATH 261** Calculus I	n/a	MATH 210
	MATH202 Calculus II	**MATH 262** Calculus II	n/a	MATH 220
	MATH203 Linear Algebra	**MATH 270** Linear Algebra	n/a	MATH 250
	MATH208 Probability and Statistics	**MATH 227** Statistics **or** **MATH 227S** Statistics with Support **or** **BUS 15** Business Statistics **or** **ECON 20** Statistics for Economics **or** **ENG GEN 221** Engineering Probability & Statistics **or** **PSYCH 91** Statistics for the Social & Behavioral Sciences	n/a	MATH 110
	PHYS201/201L Physics I with Lab	**PHYSICS 101** Physics for Engineers & Scientists I **or** **PHYSICS 21** General Physics I with Calculus **or** A course with a CSU GE Breadth designator B1 or B2 (with B3 for lab) that earned at least 4 semester units	B1, B3	PHYS 205
	6 credits in area	Any course with a CSU GE C1 and/or C2 designator	C1/C2	n/a

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[1] Courses without a CSU GE Breadth Designator will be evaluated individually

[2] Courses without a C-ID designator will be evaluated individually

San Francisco Bay University (SFBU) & East Los Angeles College

Arts & Humanities (6 semester credits)				
Social Sciences (6 semester credits)	6 credits in area	6 semester credits Any course(s) with CSU GE Breadth Area D	D	n/a

Major Course Requirements (65 credits BSCS)		
SFBU Degree Requirements	**Required SFBU course or course category**	**Specific East Los Angeles College Course(s)**
Core Course Requirements (50 units BSCS)	**BUS450** Professional and Technical Writing	**IND TEK 103** Technical Writing & Communication **and** *Lecture course at SFBU for unit difference*
	CE305 Computer Organization	**CS 130** Introduction to Computer Architecture & Organization
	CS200 Discrete Logic	**CS 131** Discrete Structures for Computer Science **or** **MATH 272** Methods of Discrete Mathematics
	CS250/250L Introduction to Programming/Lab	**CS 119** Programming in Python *(Meets CS230L requirement; SFBU lecture course needed for unit difference)*
	CS350/350L Data Structures/Lab	**MATH 273** Introduction to Data Structures & Algorithms **or** **CS 136** Introduction to Data Structures *(Meets CS250L requirement; SFBU lecture course needed for unit difference)*
	CS360/360L Programming in C and C++/Lab	**ENG GEN 121** Programming for Engineers: C++ **or** **MATH 173** Object-Oriented Programming & Design **or** **CS 116** Programming in C++ **and** (**CS 216** Object Oriented Programming in C++ **or** *a Lecture course at SFBU for unit difference*)
	CS457/457L Data Modeling & Implementation Tech/Database Technologies Lab	**CIS 120** Introduction to Databases *(Meets CS457L requirement; SFBU lecture course needed for unit difference)*

	CS480/480L Java and Internet Applications/ Java Programming Lab	**CS 113** Programming in Java **and** (**CS 213** Advanced Programming in Java **or** *a Lecture course at SFBU for unit difference*)
	P450 Career Development	**COUNSEL 4** Career Planning
	All other major course requirements not listed above (24 units)	No equivalent courses
Specialization Course Requirement (15 units BSCS)	**CS470** Network Engineering and Management	**CIS 210** Introduction to Computer Networking
	CS485 JavaScript & Internet Programing	**CS 112** Programming in JavaScript
	Complete three additional Specialization Courses (9 units)	No equivalent courses
Electives	15 semester credits in area	15 semester credits Any course identified as transferable to CSU or UC.

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Applicants for the Bachelor of Science in Business Administration (BSBA) who have successfully completed an ADT, or AA-T, or AS-T pathway as determined by East Los Angeles College with a GPA of 2.5 or higher will be automatically accepted into the BSBA program upon completing their admission documentation. The number of units transferable into the BSBA depends on the topic area in which the ADT, AA-T, or AS-T was earned.

SFBU Bachelor of Science in Business Administration (BSBA)				
SFBU Degree Requirements	**Required SFBU course or course category**	**Specific East Los Angeles College Course(s)**	**CSU GE Breadth[1] equivalent**	**C-ID[2] equivalent**
English Language & Communications & Critical Thinking (12 semester credits)	**ENGL101** Expository Writing	**ENGLISH 101** College Reading & Composition I	A2	ENGL100
	ENGL115 Public Speaking	**COMM 101** Public Speaking	A1	COMM110
	ENGL425 Modern American Literature	**ENGLISH 208** American Literature II	C2	ENGL 135
	3 additional credits in area	Any course with a CSU GE A1, A2 and/or A3 designator	A1/A2/A3	n/a
Mathematics & Natural Sciences (9 semester credits in BSBA)	**MATH208** Probability & Statistics	**MATH 227** Statistics **or** **MATH 227S** Statistics with Support **or** **BUS 15** Business Statistics **or** **ECON 20** Statistics for Economics **or** **ENG GEN 221** Engineering Probability & Statistics **or** **PSYCH 91** Statistics for the Social & Behavioral Sciences	n/a	MATH 110
	PHYS 101 Introduction to Physical Sciences	**PHYSICS 006** General Physics I, **or** transfer courses acceptable in lieu of: Physical Sciences or Biological Sciences (CSU areas B1, B2 or IGETC areas 5A, 5B)	B1, B2	n/a
	3 additional credits in area	Any course with a CSU GE Breadth designator B1, B2, B3, and/or B4	B1/B2/B3/B4	n/a

The left side of the table is labeled vertically: **General Education Requirements (36 semester Units)**

[1] Courses without a CSU GE Breadth Designator will be evaluated individually
[2] Courses without a C-ID designator will be evaluated individually

San Francisco Bay University (SFBU) & East Los Angeles College

Arts & Humanities (6 semester credits)	6 credits in area	Any course with a CSU GE C1 and/or C2 designator	C1/C2	n/a
Social Sciences (9 semester credits)	9 credits in area	9 semester credits Any course(s) with CSU GE Breadth Area D	D	n/a

Major Course Requirements (60 credits BSBA)		
SFBU Degree Requirements	**Required SFBU course or course category**	**Specific East Los Angeles College Course(s)**
Core Course Requirements (45 credits BSBA)	**ACC110** Financial Accounting I	**ACCTG 001** Introductory Accounting I
	BAN199 Excel for Finance, Accounting & Analytics	**CAOT 085** Microcomputer Office Applications: Spreadsheet
	BLAW310 Introduction to Business Law	**LAW 001** Business Law I **or** **LAW 002** Business Law II
	BUS450 Professional & Technical Writing	**IND TEK 103** Technical Writing & Communication **and** *Lecture course at SFBU for unit difference*
	ECON201 Principles of Macroeconomics	**ECON 002** Principles of Economics II
	ECON202 Principles of Microeconomics	**ECON 001** Principles of Economics I
	MGT310 Principles of Management	**MGMT 002** Organization & Management Theory
	MKT221 HTML & CSS Web Page Construction	**CIS 146** Introduction to Web Page Design
	P450 Career Development	**COUNSEL 4** Career Planning
	All other major course requirements not listed above (21 units)	No equivalent courses
Specialization Course Requirement (15 units BSBA)	**ACC110L** Financial Accounting Lab **and** **ACC120L** Managerial Accounting Lab	**ACCTG 032** Accounting Using QuickBooks Pro
	ACC120 Managerial Accounting II	**ACCTG 002** Introductory Accounting II
	CPT401 Curricular Practicum	**LOGTIC 931** Cooperative Education

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	CPT402 Curricular Practicum	**LOGTIC 931** Cooperative Education
	BAN223 SQL & Relational Databases	**CIS 120** Introduction to Databases **or** **CS 193** Database Essentials in Amazon Web Services
	BAN335 Python Introduction for Commerce	**CS 119** Programming in Python
	BAN337 JavaScript	**CS 112** Programming in JavaScript **or** **CIS 147** CIWA Web Page Authoring Fundamentals
	Complete Five Specialization Courses from above	Equivalent courses listed above
Electives	24 semester credits in area	24 semester credits Any course identified as transferable to CSU or UC.