

## Articulation Agreement

### San Francisco Bay University (SFBU) & Fullerton College

#### SFBU Bachelor of Science in Computer Science (BSCS)

SFBU Degree Requirements	Required SFBU course or course category	Specific Fullerton College Course(s)	<a href="#">CSU GE Breadth<sup>1</sup></a> equivalent	<a href="#">C-ID<sup>2</sup></a> equivalent	
<b>General Education Requirements (40 semester Units)</b>	<b>English Language &amp; Communications &amp; Critical Thinking</b> (12 semester credits)	<b>ENGL101</b> Expository Writing	<b>ENGL 100 F</b> College Writing <b>or</b> <b>ENGL 100HF</b> Honors College Writing <b>or</b> <b>ENGL 101 F</b> Enhanced College Writing <b>or</b> <b>ENGL 110 F</b> Enhanced College Writing for Non-Native Speakers	A2	ENGL100
	<b>ENGL115</b> Public Speaking	<b>BUS 112 F</b> Public Speaking for Business <b>or</b> <b>COMM 100 F</b> Public Speaking	A1	COMM110	
	<b>ENGL425</b> Modern American Literature	<b>ENGL 222 F</b> American Literature from The Civil War to The Present <b>or</b> <b>ENGL 222HF</b> Honors American Literature from The Civil War to The Present	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	
	<b>Mathematics &amp; Natural Sciences</b> (16 semester credits in BSCS)	<b>MATH201</b> Calculus I	<b>MATH 151 F</b> Calculus I <b>or</b> <b>MATH 151HF</b> Honors Calculus I	n/a	MATH 210
	<b>MATH202</b> Calculus II	<b>MATH 152 F</b> Calculus II <b>or</b> <b>MATH 152HF</b> Honors Calculus II	n/a	MATH 220	
	<b>MATH203</b> Linear Algebra	<b>MATH 252 F</b> Linear Algebra & Differential Equations <b>or</b> <b>MATH 255 F</b> Linear Algebra	n/a	MATH 250	

<sup>1</sup> Courses without a CSU GE Breadth Designator will be evaluated individually

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		<b>MATH208</b> Probability and Statistics	<b>MATH 120 F</b> Introductory Probability & Statistics <u>or</u> <b>MATH 120HF</b> Honors Introductory Probability & Statistics <u>or</u> <b>MATH 121 F</b> Enhanced Introductory Probability & Statistics	n/a	MATH 110
		<b>PHYS201/201L</b> Physics I with Lab	<b>PHYS 221 F</b> General Physics I <u>or</u> 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
<b>Arts &amp; Humanities</b> (6 semester credits)	6 credits in area	Any course with a CSU GE C1 and/or C2 designator	C1/C2	n/a	
<b>Social Sciences</b> (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 Fullerton College Course(s)
<b>Core Course Requirements</b> (50 units BSCS)	<b>CE305</b> Computer Organization	<b>CSCI 241 F</b> Computer Organization & Assembly Language Programming
	<b>CS200</b> Discrete Logic	<b>MATH 170 F</b> Discrete Structures <u>or</u> <b>MATH 171 F</b> Discrete Mathematics
	<b>CS230/230L</b> Linux & Shell Scripting/Lab	<b>CIS 290 F</b> Linux & Unix Operating System <i>(Meets CS230L requirement; SFBU lecture course needed for hour difference)</i>
	<b>CS250/250L</b> Introduction to Programming/Lab	<b>CIS 201 F</b> Introduction to Python Programming <i>(Meets CS250 requirement; CS250L not met)</i>
	<b>CS350/350L</b> Data Structures/Lab	<b>CSCI 133 F</b> Data Structures in C++

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	<b>CS360/360L</b> Programming in C and C++/Lab	<b>CSCI 123 F</b> Introduction to Programming Concepts in C++ <b>or</b> <b>CIS 223 F</b> Programming in C++ <i>(Meets CS457 requirement; CS457L not met)</i>
	<b>CS457/457L</b> Data Modeling & Implementation Tech/Database Technologies Lab	<b>CIS 242 F</b> Database II <i>(Meets CS457 requirement; CS457L not met)</i> <b>Or</b> <b>CIS 280 F</b> Introduction to Oracle: SQL & PL/SQL <i>(Meets CS457L requirement; SFBU lecture course needed for hour difference)</i>
	<b>CS480/480L</b> Java and Internet Applications/ Java Programming Lab	<b>CIS 226 F</b> Java Programming I
	<b>P450</b> Career Development	<b>COUN 141 F</b> Career Exploration <b>or</b> <b>COUN 143 F</b> Creative Job Search <b>or</b> <b>COUN 151 F</b> Career and College Success
	All other major course requirements not listed above (23 units)	No equivalent courses
<b>Specialization Course Requirement</b> (15 units BSCS)	<b>CS477</b> Ethical Hacking & Penetration Testing	<b>CIS 171 F</b> Ethical Hacking
	<b>CS485</b> JavaScript & Internet Programing	<b>CIS 154 F</b> JavaScript Programming I
	Complete three additional Specialization Courses (9 units)	No equivalent courses
<b>Electives</b>	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 Fullerton 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 Fullerton College Course(s)	<u>CSU GE Breadth</u> <sup>1</sup> equivalent	<u>C-ID</u> <sup>2</sup> equivalent
<b>English Language &amp; Communications &amp; Critical Thinking</b> (12 semester credits)	ENGL101 Expository Writing	<b>ENGL 100 F</b> College Writing <b>or</b> <b>ENGL 100HF</b> Honors College Writing <b>or</b> <b>ENGL 101 F</b> Enhanced College Writing <b>or</b> <b>ENGL 110 F</b> Enhanced College Writing for Non-Native Speakers	A2	ENGL100
	ENGL115 Public Speaking	<b>BUS 112 F</b> Public Speaking for Business <b>or</b> <b>COMM 100 F</b> Public Speaking	A1	COMM110
	ENGL425 Modern American Literature	<b>ENGL 222 F</b> American Literature from The Civil War to The Present <b>or</b> <b>ENGL 222HF</b> Honors American Literature from The Civil War to The Present	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
<b>Mathematics &amp; Natural Sciences</b> (9 semester credits in BSBA)	MATH208 Probability & Statistics	<b>MATH 120 F</b> Introductory Probability & Statistics <b>or</b> <b>MATH 120HF</b> Honors Introductory Probability & Statistics <b>or</b> <b>MATH 121 F</b> Enhanced Introductory Probability & Statistics	n/a	MATH 110

<sup>1</sup> Courses without a CSU GE Breadth Designator will be evaluated individually

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	<b>PHYS 101</b> Introduction to Physical Sciences	<b>PHYS 130 F</b> Elementary Physics <u>or</u> 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
<b>Arts &amp; Humanities</b> (6 semester credits)	6 credits in area	Any course with a CSU GE C1 and/or C2 designator	C1/C2	n/a
<b>Social Sciences</b> (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 Fullerton College Course(s)
<b>Core Course Requirements</b> (45 credits BSBA)	<b>ACC110</b> Financial Accounting I	<b>ACCT 101AF</b> Financial Accounting <u>or</u> <b>ACCT 102HF</b> Honors Financial Accounting
	<b>BAN199</b> Excel for Finance, Accounting & Analytics	<b>ACCT 230 F</b> Excel for Accountants <u>or</u> <b>CIS 106 F</b> Beginning Spreadsheet (MS Excel) <u>or</u> <b>CIS 201 F</b> Advanced Spreadsheet (MS Excel)
	<b>BLAW310</b> Introduction to Business Law	<b>BUS 240 F</b> Legal Environment of Business <u>or</u> <b>BUS 245 F</b> Business Law I <u>or</u> <b>BUS 240HF</b> Honors Legal Environment of Business
	<b>ECON201</b> Principles of Macroeconomics	<b>ECON 102 F</b> Principles of Economics – Macro <u>or</u> <b>ECON 102HF</b> Honors Principles of Economics-Macro
	<b>ECON202</b> Principles of Microeconomics	<b>ECON 101 F</b> Principles of Economics - Micro <u>or</u> <b>ECON 101HF</b> Honors Principles of Economics - Micro
	<b>FIN310</b> Fundamentals of Finance	<b>BUS 251 F</b> Business Finance
	<b>MGT310</b> Principles of Management	<b>BUS 262 F</b> Principles of Management

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### San Francisco Bay University (SFBU) & Fullerton College

	<b>MKT221</b> HTML & CSS Web Page Construction	<b>CIS 152 F</b> Web Design I
	<b>MKT310</b> Principles of Marketing	<b>MKT 100 F</b> Introduction to Marketing
	<b>P450</b> Career Development	<b>COUN 141 F</b> Career Exploration <b>or</b> <b>COUN 143 F</b> Creative Job Search <b>or</b> <b>COUN 151 F</b> Career and College Success
	All other major course requirements not listed above (18 units)	No equivalent courses
<b>Specialization Course Requirement</b> (15 units BSBA)	<b>ACC110L</b> Financial Accounting Lab <b>and</b> <b>ACC120L</b> Managerial Accounting Lab	<b>ACCT 107 F</b> Computerized Accounting with QuickBooks
	<b>ACC120</b> Managerial Accounting II	<b>ACCT 101BF</b> Managerial Accounting
	<b>CPT401</b> Curricular Practicum	<b>BUS 295 F</b> Business Internship <b>or</b> <b>BUS 296 F</b> Business Internship II <b>or</b> <b>BUS 297</b> Business Internship III
	<b>CPT402</b> Curricular Practicum	<b>BUS 295 F</b> Business Internship <b>or</b> <b>BUS 296 F</b> Business Internship II <b>or</b> <b>BUS 297 F</b> Business Internship III
	<b>BAN223</b> SQL & Relational Databases	<b>CIS 241 F</b> Database I <b>or</b> <b>CIS 280 F</b> Introduction to Oracle: SQL & PL/SQL
	<b>BAN335</b> Python Introduction for Commerce	<b>CIS 201 F</b> Introduction to Python Programming
	<b>BAN337</b> JavaScript	<b>CIS 154 F</b> JavaScript Programming I
	Complete Specialization Courses from above	Equivalent courses listed above
<b>Electives</b>	24 semester credits in area	24 semester credits Any course identified as transferable to CSU or UC.

## **Articulation Agreement**

### **San Francisco Bay University (SFBU) & Fullerton College**

This agreement will automatically renew each year. In the event of significant curriculum change, SFBU staff is responsible for updating the agreement.

**Monica Sinha, Director of Admissions & Special Projects**

SFBU Staff Member (name, title)

**July 1, 2023**

Date