

## Articulation Agreement

### San Francisco Bay University (SFBU) & El Camino Community College

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

SFBU Degree Requirements	Required SFBU course or course category	Specific El Camino Community 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)	ENGL101 Expository Writing	ENGL 1A - Reading & Composition <b>or</b> ENGL 1AH - Honors Reading & Composition	A2	ENGL100
	ENGL115 Public Speaking	COMS 100 - Public Speaking	A1	COMM110	
	ENGL425 Modern American Literature	ENGL 40B - 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	
	<b>Mathematics &amp; Natural Sciences</b> (16 semester credits in BSCS)	MATH201 Calculus I	MATH 190 - Single Variable Calculus & Analytic Geometry I	n/a	MATH 210
	MATH202 Calculus II	MATH 191 - Single Variable Calculus & Analytic Geometry II	n/a	MATH 220	
	MATH203 Linear Algebra	MATH 270 - Differential Equations with Linear Algebra	n/a	MATH 250	
	MATH208 Probability and Statistics	MATH 150 - Elementary Statistics with Probability <b>or</b> MATH 150H - Honors Elementary Statistics with Probability	n/a	MATH 110	
	PHYS201/201L Physics I with Lab	PHYS 1A - Mechanics of Solids <b>or</b> 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	

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

<sup>2</sup> Courses without a C-ID designator will be evaluated individually

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<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
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### Major Course Requirements (65 credits BSCS)

SFBU Degree Requirements	Required SFBU course or course category	Specific El Camino Community College Course(s)
<b>Core Course Requirements</b> (50 units BSCS)	<b>CS200</b> Discrete Logic	<b>MATH 210</b> - Introduction to Discrete Structures
	<b>CS230/230L</b> Linux & Shell Scripting/Lab	<b>CSCI 40</b> - Introduction to Unix & Linux Operating Systems
	<b>CS250/250L</b> Introduction to Programming/Lab	<b>CSCI 14</b> - Introduction to Programming with Python
	<b>CS350/350L</b> Data Structures/Lab	<b>CSCI 2</b> - Introduction to Data Structures
	<b>CS360/360L</b> Programming in C and C++/Lab	<b>CSCI 1</b> - Problem Solving & Program Design Using C++
	<b>CS457/457L</b> Data Modeling & Implementation Tech/Database Technologies Lab	<b>CIS 80</b> - Database Programming <b>or</b> <b>CIS 84</b> - MySQL Database Programming for the Web <i>(Meets CS230L requirement; SFBU lecture course needed for unit difference)</i>
	<b>CS480/480L</b> Java and Internet Applications/ Java Programming Lab	<b>CSCI 3</b> - Object-Oriented Programming in Java
	<b>P450</b> Career Development	<b>BUS 106</b> - Career Planning
	All other major course requirements not listed above (24 units)	No equivalent courses
<b>Specialization Course Requirement</b> (15 units BSCS)	<b>CS470</b> Network Engineering and Management	<b>CIS 137</b> - Computer Networking Fundamentals
	<b>CS477</b> Ethical Hacking & Penetration Testing	<b>CIS 122</b> - Ethical Hacking
	<b>CS481</b> Introduction to Data Science	<b>CSCI 8</b> - Foundations of Data Science
	<b>CS485</b> JavaScript & Internet Programing	<b>CSCI 12</b> - Programming for Internet Applications Using PHP, JavaScript, & XHTML <b>or</b> <b>CIS 133</b> - Mashup JavaScript, jQuery & AJAX

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	Complete one additional Specialization Courses (3 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 El Camino Community 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 El Camino Community College Course(s)	CSU GE Breadth <sup>1</sup> equivalent	C-ID <sup>2</sup> equivalent
<b>English Language &amp; Communications &amp; Critical Thinking</b> (12 semester credits)	<b>ENGL101</b> Expository Writing	<b>ENGL 1A</b> - Reading & Composition <u>or</u> <b>ENGL 1AH</b> - Honors Reading & Composition	A2	ENGL100
	<b>ENGL115</b> Public Speaking	<b>COMS 100</b> - Public Speaking	A1	COMM110
	<b>ENGL425</b> Modern American Literature	<b>ENGL 40B</b> - 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
<b>Mathematics &amp; Natural Sciences</b> (9 semester credits in BSBA)	<b>MATH208</b> Probability & Statistics	<b>MATH 150</b> - Elementary Statistics with Probability <u>or</u> <b>MATH 150H</b> - Honors Elementary Statistics with Probability	n/a	MATH 110
	<b>PHYS 101</b> Introduction to Physical Sciences	<b>PHYS 2A</b> General 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

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

<sup>2</sup> Courses without a C-ID designator will be evaluated individually

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<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
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### Major Course Requirements (60 credits BSBA)

SFBU Degree Requirements	Required SFBU course or course category	Specific El Camino Community College Course(s)
<b>Core Course Requirements</b> (45 credits BSBA)	<b>ACC110</b> Financial Accounting	<b>BUS 1A</b> - Financial Accounting
	<b>BAN199</b> Excel for Finance, Accounting & Analytics	<b>CIS 26</b> - Using Microsoft Excel
	<b>BLAW310</b> Introduction to Business Law	<b>LAW 5</b> - Business Law
	<b>ECON201</b> Principles of Macroeconomics	<b>ECON 101</b> - Principles of Economics: Macroeconomics <u>or</u> <b>ECON 101H</b> - Honors Principles of Economics: Macroeconomics
	<b>ECON202</b> Principles of Microeconomics	<b>ECON 102</b> - Principles of Economics: Microeconomics Theory
	<b>MGT310</b> Principles of Management	<b>BUS 20</b> - Business Management
	<b>MKT221</b> HTML & CSS Web Page Construction	<b>CIS 132</b> - Web Development Using HTML5, CSS3, & Word Press
	<b>MKT310</b> Principles of Marketing	<b>BUS 14</b> - Marketing
	<b>P450</b> Career Development	<b>BUS 106</b> - Career Planning
	All other major course requirements not listed above (21 units)	No equivalent courses
<b>Specialization Course Requirement</b> (15 units BSBA)	<b>ACC110L</b> Financial Accounting Lab <u>and</u> <b>ACC120L</b> Managerial Accounting Lab	<b>BUS 165A</b> - QuickBooks
	<b>ACC120</b> Managerial Accounting	<b>BUS 1B</b> - Managerial Accounting
	<b>CPT401</b> Curricular Practicum	<b>BUS 95</b> - Cooperative Work Experience Education
	<b>CPT402</b> Curricular Practicum	<b>BUS 95</b> - Cooperative Work Experience Education

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	<b>BAN223</b> SQL & Relational Databases	<b>CIS 80</b> - Database Programming <b>or</b> <b>CIS 84</b> - MySQL Database Programming for the Web
	<b>BAN335</b> Python Introduction for Commerce	<b>CSCI 14</b> - Introduction to Programming with Python
	<b>BAN337</b> JavaScript	<b>CSCI 12</b> - Programming for Internet Applications Using PHP, JavaScript, & XHTML <b>or</b> <b>CIS 133</b> - Mashup JavaScript, jQuery & AJAX
	Complete Five Specialization Courses	Equivalent courses listed above
<b>Electives</b>	24 semester credits in area	24 semester credits Any course identified as transferable to CSU or UC.

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)

**June 1, 2023**  
Date