Articulation Agreement

San Francisco Bay University (SFBU) & City College of San Francisco

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

		Required SFBU course or course category	**Specific City College of San Francisco Course(s)**	**CSU GE Breadth[1] equivalent**	**C-ID[2] equivalent**
General Education Requirements (40 semester Units)	**English Language & Communications & Critical Thinking** (12 semester credits)	**ENGL 101** Expository Writing	**ENGL 1A.** University-Parallel Reading & Composition	A2	ENGL100
		ENGL 115 Public Speaking	**CMST 1A.** Elements of Public Speaking	A1	COMM110
		ENGL 425 Modern American Literature	**ENGL 30B.** American Literature, 1865-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
	Mathematics & Natural Sciences (16 semester credits in BSCS)	**MATH 201** Calculus I	**MATH 110A.** Calculus I	n/a	MATH 210
		MATH 202 Calculus II	**MATH 110B.** Calculus II	n/a	MATH 220
		MATH 203 Linear Algebra	**MATH 120.** Linear Algebra **or** **MATH 130.** Linear Algebra & Differential Equations	n/a	MATH 250
		MATH 208 Probability and Statistics	**ECON 5.** Introductory Statistics for Economics, Business & Social Sciences **or** **MATH 80.** Probability & Statistics **or** **PSYC 5.** Statistics for Behavioral Sciences **or** **LALS 5** Introduction to Statistical Methods in Latin American & Latino/a Studies	n/a	MATH 110
		PHYS 201/201L Physics I with Lab	**PHYC 4A.** Classical Mechanics for Scientists & Engineers **and PHYC 4AL.** Mechanics Laboratory for Scientists & Engineers, **or** A course with a CSU GE Breadth designator B 1 or B2 (with B3 for lab) that earned at least 4 semester units	B1, B3	PHYS 205

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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

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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 (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 College Course(s)**
Core Course Requirements (50 units BSCS)	**BUS450** Professional and Technical Writing	**BSEN 76.** Business and Technical Report Writing
	CE305 Computer Organization	**CS 270.** Computer Architecture with Assembly Language
	CS 200 Discrete Logic	**MATH 115.** Discrete Mathematics
	CS230/230L Linux & Shell Scripting/Lab	**CS 160A.** Introduction to Unix/Linux **and** **CS 160B.** Unix/Linux Shell Scripting
	CS250/250L Introduction to Programming/Lab	**CS 131B.** Programming Fundamentals: Python
	CS350/350L Data Structures/Lab	**CS 110C.** Data Structures and Algorithms: C++ **or** **CS 111C.** Data Structures and Algorithms: Java
	CS360/360L Programming in C and C++/Lab	**CS 110B.** Programming Fundamentals: C++
	CS380 Operating Systems	**CNIT 104.** Operating Systems Technologies
	CS457/457L Data Modeling & Implementation Tech/Database Technologies Lab	**CS 150A.** Introduction to SQL Databases & NoSQL **and** **CS 155P.** MySQL Programming
	CS480/480L Java and Internet Applications/ Java Programming Lab	**CS 111B.** Programming Fundamentals: Java
	P450 Career Development	**CRER 61.** Orientation to Career Success **or** **CRER 62.** Successful Job Search Techniques
	All other major course requirements not listed above (18 units)	No equivalent courses

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Specialization Course Requirement (15 units BSCS)	CS470 Network Engineering and Management	CNIT 201C. Introduction to Cisco Networks
	CS 477 Ethical Hacking & Penetration Testing	CNIT 123. Ethical Hacking & Network Defense or CNIT 124. Advanced Ethical Hacking
	CS485 JavaScript & Internet Programing	CNIT 133. JavaScript, jQuery, AJAX or CNIT 133A. JavaScript Libraries/Frameworks or CNITI JavaScript for IOT & XR
	Complete two additional Specialization Courses (6 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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San Francisco Bay University (SFBU) & City College of San Francisco

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 City College of San Francisco 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 are 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 City College of San Francisco Course(s)**	**CSU GE Breadth[1] equivalent**	**C-ID[2] equivalent**
English & Communications (12 semester credits)	**ENGL 101** Expository Writing	**ENGL 1A.** University-Parallel Reading & Composition	A2	ENGL 100
	ENGL 115 Public Speaking	**CMST 1A.** Elements of Public Speaking	A1	COMM110
	ENGL 425 Modern American Literature	**ENGL 30B.** American Literature, 1865-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
Mathematics and Natural Sciences (9 semester credits in BSBA)	**MATH 208** Probability and Statistics	**ECON 5.** Introductory Statistics for Economics, Business & Social Sciences **or** **MATH 80.** Probability & Statistics **or** **PSYC 5.** Statistics for Behavioral Sciences **or** **LALS 5** Introduction to Statistical Methods in Latin American & Latino/a Studies	n/a	MATH 110
	PHYS 101 Introduction to Physical Sciences	**PHYC 2A.** Introductory Physics, 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
Arts & Humanities (6 semester credits)	6 credits in area	Any course with a CSU GE C1 and/or C2 designator	C1/C2	n/a

(Left vertical label: General Education Requirements (36 semester Units))

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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

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	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 College Course(s)**
Core Course Requirements (45 credits BSBA)	**ACC 110** Financial Accounting I	**ACCT 1.** Financial Accounting **or** **ACCT 10.** Introduction to Accounting
	BLAW310 Introduction to Business Law	**BSL 1.** Business Law I **or** **INTR 167.** International Business Law
	BUS450 Professional & Technical Writing	**BSEN 76.** Business & Technical Report Writing
	ECON201 Principles of Macroeconomics	**ECON 1.** Principles of Macroeconomics
	ECON202 Principles of Microeconomics	**ECON 3.** Principles of Microeconomics
	IT221 HTML & CSS Web Page Construction	**CNIT 132.** Intermediate HTML & CSS **or** **CNIT 131.** Internet Basics & Beginning HTML **or** **CNIT 133M.** Mobile Web w/HTML, CSS & JS
	MGT310 Principles of Management	**MGT 231.** Introduction to Supervision & Management
	MKT310 Principles of Marketing	**MRKT 140.** Introduction to Marketing **or** **INTR 163.** International Marketing
	P450 Career Development	**CRER 61.** Orientation to Career Success **or** **CRER 62.** Successful Job Search Techniques
	All other major course requirements not listed above (26 units)	No equivalent courses
Specialization Course Requirement (15 units BSBA)	**ACC120** Managerial Accounting II	**ACCT 2.** Managerial Accounting **or** **ACCT 51.** Intermediate Accounting
	IT223 SQL & Relational Databases	**CNIT 415.** SQL Server Administration **or** **CS 150A.** Introduction to SQL Databases & NoSQL

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	IT335 Python Introduction for Commerce	**CS 131B.** Programming Fundamentals: Python **or** **CS 231.** Advanced Python Programming
	IT337 JavaScript	**CNIT 133.** JavaScript, jQuery, AJAX **or** **CNIT 133A.** JavaScript Libraries/Frameworks
	Complete one additional Specialization Courses (3 units)	No equivalent courses
Electives	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   **January 1, 2023**
SFBU Staff Member (name, title)   Date