

Articulation Agreement (2022)

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

SFBU Bachelor of Science in Computer Science (BSCS)

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) (2021-2022 Catalog)	CSU GE Breadth¹ equivalent	C-ID² 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/A3	ENGL100/ ENGL110
		ENGL 115 Public Speaking	CMST 1A. Elements of Public Speaking or CMST 12. Fundamentals of Oral Communication	A1	COMM 110
		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	n/a	MATH 110	

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		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
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)					
Core Course Requirements (50 units BSCS)	BUS450 Professional and Technical Writing	BSEN 76. Business and Technical Report Writing	n/a	BUS 115	
	CE305 Computer Organization	CS 270. Computer Architecture with Assembly Language	n/a	COMP 142	
	CS 200 Discrete Logic	MATH 115. Discrete Mathematics	n/a	COMP 152	
	CS230/230L Linux & Shell Scripting/Lab	CS 160A. Introduction to Unix/Linux and CS 160B. Unix/Linux Shell Scripting	n/a	n/a	
	CS250/250L Introduction to Programming/Lab	CS 131B. Programming Fundamentals: Python	n/a	n/a	
	CS350/350L Data Structures/Lab	CS 110C. Data Structures and Algorithms: C++ or CS 111C. Data Structures and Algorithms: Java	n/a	COMP 132	
	CS360/360L Programming in C and C++/Lab	CS 110B. Programming Fundamentals: C++	n/a	COMP 122	
	CS380 Operating Systems	CNIT 104. Operating Systems Technologies	n/a	n/a	
	CS457/457L Data Modeling & Implementation Tech/Database Technologies Lab	CS 150A. Introduction to SQL Databases & NoSQL and CS 155P. MySQL Programming	n/a	n/a	

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	CS480/480L Java and Internet Applications/ Java Programming Lab	CS 111B. Programming Fundamentals: Java	n/a	n/a
	P450 Career Development	CRER 61. Orientation to Career Success or CRER 62. Successful Job Search Techniques	n/a	n/a
	All other major course requirements not listed above (18 units)	No equivalent courses	n/a	n/a
Specialization Course Requirement (15 units BSCS)	CS470 Network Engineering and Management	CNIT 201C. Introduction to Cisco Networks	n/a	n/a
	CS 477 Ethical Hacking & Penetration Testing	CNIT 123. Ethical Hacking & Network Defense or CNIT 124. Advanced Ethical Hacking	n/a	n/a
	CS485 JavaScript & Internet Programming	CNIT 133. JavaScript, jQuery, AJAX or CNIT 133A. JavaScript Libraries/Frameworks or CNIT1 JavaScript for IOT & XR	n/a	n/a
	Complete two additional Specialization Courses (6 units)	No equivalent courses	n/a	n/a
Electives	15 semester credits in area	15 semester credits Any course identified as transferable to CSU or UC.	n/a	n/a

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 area in which the ADT, AA-T, or AS-T was earned.

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

SFBU Bachelor of Science in Business Administration (BSBA)

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SFBU Degree Requirements	Required SFBU course or course category	Specific City College of San Francisco Course(s) (2021-2022 Catalog)	CSU GE Breadth¹ equivalent	C-ID² equivalent	
General Education Requirements (36 semester Units)	English & Communications (12 semester credits)	ENGL 101 Expository Writing	ENGL 1A. University-Parallel Reading & Composition	A2/A3	ENGL 100/ ENGL110
		ENGL 115 Public Speaking	CMST 1A. Elements of Public Speaking or CMST 12. Fundamentals of Oral Communication	A1	COMM 110
		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	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
	Social Sciences (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)				
Core Course Requirements (45 credits BSBA)	ACC 110 Financial Accounting I	ACCT 1. Financial Accounting <u>or</u> ACCT 10. Introduction to Accounting	n/a	ACCT 110
	BAN199 Excel for Finance, Accounting & Analytics	MABS 101. Microsoft Excel <u>or</u> BSMA 68. Mathematics of Business	n/a	n/a
	BLAW310 Introduction to Business Law	BSL 1. Business Law I <u>or</u> INTR 167. International Business Law	n/a	BUS 125
	BUS450 Professional & Technical Writing	BSEN 76. Business & Technical Report Writing	n/a	n/a
	ECON201 Principles of Macroeconomics	ECON 1. Principles of Macroeconomics	n/a	ECON 202
	ECON202 Principles of Microeconomics	ECON 3. Principles of Microeconomics	n/a	ECON 201
	IT221 HTML & CSS Web Page Construction	CNIT 132. Intermediate HTML & CSS <u>or</u> CNIT 131. Internet Basics & Beginning HTML <u>or</u> CNIT 133M. Mobile Web w/HTML, CSS & JS	n/a	n/a
	MGT310 Principles of Management	MGT 231. Introduction to Supervision & Management	n/a	n/a
	MKT310 Principles of Marketing	MRKT 140. Introduction to Marketing <u>or</u> INTR 163. International Marketing	n/a	n/a
	P450 Career Development	CRER 61. Orientation to Career Success <u>or</u> CRER 62. Successful Job Search Techniques	n/a	n/a
	All other major course requirements not listed above (24 units)	No equivalent courses	n/a	n/a
Specialization Course Requirement (15 units BSBA)	ACC120 Managerial Accounting II	ACCT 2. Managerial Accounting <u>or</u> ACCT 51. Intermediate Accounting	n/a	ACCT 120
	IT223 SQL & Relational Databases	CNIT 415. SQL Server Administration <u>or</u> CS 150A. Introduction to SQL Databases & NoSQL <u>or</u> CS 151P. Oracle PL/SQL Programming	n/a	ITIS 180

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	IT335 Python Introduction for Commerce	CS 131B. Programming Fundamentals: Python or CS 231. Advanced Python Programming	n/a	ITIS 180
	IT337 JavaScript	CNIT 133. JavaScript, jQuery, AJAX or CNIT 133A. JavaScript Libraries/Frameworks	n/a	n/a
	Complete one additional Specialization Courses (3 units)	No equivalent courses	n/a	n/a
Electives	24 semester credits in area	24 semester credits Any course identified as transferable to CSU or UC.	n/a	n/a

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)

January 14, 2022
Date