San Francisco Bay University (SFBU) & Antelope Valley College

SFBU Bachelor of Science in Computer Science (BSCS)				
SFBU Degree Requirements	**Required SFBU course or course category**	**Specific Antelope Valley College Course(s) (2021 – 2022 Catalog)**	**CSU GE Breadth[1] equivalent**	**C-ID[2] equivalent**
General Education Requirements (40 semester Units) **English Language & Communications & Critical Thinking** (12 semester credits)	**ENGL101** Expository Writing	**ENGL 101** College Composition	A2/A3	ENGL100
	ENGL115 Public Speaking	**COMM 101** Introduction to Public Speaking	A1	COMM 110
	ENGL425 Modern American Literature	**ENGL 222** 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)	**MATH201** Calculus I	**MATH 150** Calculus & Analytic Geometry	n/a	MATH 210
	MATH202 Calculus II	**MATH 160** Calculus & Analytic Geometry	n/a	MATH 220
	MATH203 Linear Algebra	**MATH 220** Linear Algebra	n/a	MATH 250
	MATH208 Probability and Statistics	**MATH 115** Statistics **or** **MATH 116** Introduction to Statistics Using R	n/a	MATH 110
	PHYS201/201L Physics I with Lab	**PHYS 110** General Physics **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
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

[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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San Francisco Bay University (SFBU) & Antelope Valley College

Major Course Requirements (65 credits BSCS)				
Core Course Requirements (50 units BSCS)	**BUS450** Professional and Technical Writing	**ENGL 115** Introduction to Technical Communication	n/a	BUS 115
	CE305 Computer Organization	**CIS 123** Assembly Language & Computer Architecture	n/a	COMP 142
	CS200 Discrete Logic	**CIS 121** Computer Mathematics	n/a	COMP 152
	CS230/230L Linux & Shell Scripting/Lab	**CA 157** Introduction to Linux *(Meets CS230L requirement; SFBU lecture course needed for hour deficiency)*	n/a	n/a
	CS250/250L Introduction to Programming/Lab	**CIS 111** Introduction to Programming & Algorithms **or CIS 177** Introduction to Python Programming *(Either meet CS250L requirement; SFBU lecture course needed for hour deficiency)*	n/a	n/a
	CS350/350L Data Structures/Lab	**CIS 113** Data Structures *(Meets CS350L requirement; SFBU lecture course needed for hour deficiency)*	n/a	COMP 132
	CS360/360L Programming in C and C++/Lab	**CIS 161** Introduction to C Programming **and** **CIS 173** Introduction to C++ Programming	n/a	COMP 122
	CS457/457L Data Modeling & Implementation Tech/Database Technologies Lab	**CA 132** Oracle SQL Database Management *(Meets CS457L requirement; SFBU lecture course needed for hour deficiency)*	n/a	n/a
	CS480/480L Java and Internet Applications/ Java Programming Lab	**CIS 175** Advanced Java Programming *(Meets CS480L requirement; SFBU lecture course needed for hour deficiency)*	n/a	n/a
	P450 Career Development	**HD 103** Career Planning	n/a	n/a
	All other major course requirements not listed above (27 units)	No equivalent courses	n/a	n/a
Specialization Course Requirement	**CE450** Fundamentals of Embedded Engineering	**ELTE 180** Microprocessor Systems	n/a	n/a

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(15 units BSCS)	**CS470** Network Engineering and Management	**CA 171** Introduction to Networking	n/a	n/a
	Complete three additional Specialization Courses (9 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

SFBU Bachelor of Science in Business Administration (BSBA)				
SFBU Degree Requirements	**Required SFBU course or course category**	**Specific Antelope Valley College Course(s) (2021 – 2022 Catalog)**	**CSU GE Breadth[1] equivalent**	**C-ID[2] equivalent**
General Education Requirements (36 semester Units) — **English Language & Communications & Critical Thinking** (12 semester credits)	**ENGL101** Expository Writing	**ENGL 101** College Composition	A2/A3	ENGL100
	ENGL115 Public Speaking	**COMM 101** Introduction to Public Speaking	A1	COMM110
	ENGL425 Modern American Literature	**ENGL 222** 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 (9 semester credits in BSBA)	**MATH208** Probability and Statistics	**MATH 115** Statistics **or** **MATH 116** Introduction to Statistics Using R	n/a	MATH 110
	PHYS 101 Introduction to Physical Sciences	**PHYS 101** 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
Major Course Requirements (60 credits BSBA)				
Core Course Requirements (45 credits BSBA)	**ACC110** Financial Accounting I	**ACCT 201** Financial Accounting	n/a	ACCT 110
	BAN199 Excel for Finance, Accounting & Analytics	**BIP 112** MS Excel I **and** (**BIP 122** MS Excel II **or** **CA 121** Microcomputer Spreadsheets)	n/a	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

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	BLAW310 Introduction to Business Law	**BUS 201** Business Law	n/a	BUS 125
	BUS450 Professional & Technical Writing	**ENGL 115** Introduction to Technical Communication	n/a	n/a
	ECON201 Principles of Macroeconomics	**ECON 101** Principles of Macroeconomics	n/a	ECON 202
	ECON202 Principles of Microeconomics	**ECON 102** Principles of Microeconomics	n/a	ECON 201
	IT221 HTML & CSS Web Page Construction	**DM 127** Web Design & Production I	n/a	n/a
	MGT310 Principles of Management	**MGT 101** Principles of Management	n/a	n/a
	MKT310 Principles of Marketing	**MKTG 101** Principles of Marketing	n/a	n/a
	P450 Career Development	**HD 103** Career Planning	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 BSBA)	**CPT401** Curricular Practicum	**BUS199** Occupational Work Experience **or** **MGT199** Occupational Work Experience **or** **MKTG199** Occupational Work Experience	n/a	n/a
	CPT402 Curricular Practicum	**BUS199** Occupational Work Experience **or** **MGT199** Occupational Work Experience **or** **MKTG199** Occupational Work Experience	n/a	n/a
	IT223 SQL & Relational Databases	**CA 132** Oracle SQL Database Management	n/a	ITIS 180
	IT335 Python Introduction for Commerce	**CIS 177** Introduction to Python Programming	n/a	ITIS 180
	Complete two additional Specialization Courses (6 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