	San Francisco Bay University and Grossmont College Course Mapping General Education Courses (BSCS& BSBA)								
Category	SFBU Course	College Equivale	nf	CSU	C-ID#	BSCS Requirement	BSBA Requiremnt	Unit Requirements	
rglish	ENGL101 EXPOSITORY WRITING	ENGL 120 COLLEGE COMPOSITION & REAL		A2	ENGL 100	✓	✓	Omt Requirements	
inguage &	ENGL115 PUBLIC SPEAKING	COMM 122 PUBLIC SPEAKING		A1	COMM 110	✓	$\checkmark$	1	
ommunicati is &	ENGL425 MODERN AMERICAN LITERATURE	ENGL 232 AMERICAN LITERATURE II  Any course with a CSU GE A1, A2 and/or A3 designator		C2	ENGL 135		12 semester credits in BS 12 semester credits in BS		
ritical	Additional Elective for English			A1/A2/A3	A1/A2/A3 N/A				
ninking athematics	MATH201 CALCULUS – I	MATH 190 ANALYTIC GEOMETRY & CALCU	II IIC I	B4	MATH 210				
	MATH 202 CALCULUS – II	MATH 180 ANALYTIC GEOMETRY & CALCULUS I  MATH 280 ANALYTIC GEOMETRY & CALCULUS II		B4	MATH 210 MATH 220	✓ ✓			
& Natural Sciences	MATH203 LINEAR ALGEBRA	MATH 284 LINEAR ALGEBRA		B4	MATH 250	$\checkmark$			
				B4	MATH 110	$\checkmark$	~		
	PHYS 101 INTRODUCTION TO PHYSICAL SCIENCES	PHYC 110 INTRODUCTORY PHYSICS		B1/B2	N/A		$\checkmark$	16 semester credits in BSC 9 semester credits in BSBA	
		PHYC 130 FUNDAMENTALS OF PHYSICS							
	PHYS201 PHYSICS – I and PHYS201L PHYSICS LAB – I	PHYC 201 MECHANICS & WAVES		B1/B3	PHYS 205	✓			
	Additional Elective for Math/Natural Sciences	Any course with a CSU GE Breadth designator B1, B2, B3, and/or B4		B1/B2/B3/B4	N/A		$\overline{\mathbf{V}}$	<b>Z</b>	
	Elective for Humanities	Any course with a CSU GE C1 and/or C2 designa	itor	C1/C2	N/A	<b>✓</b>			
Humanities	Elective for Humanities	Any course with a CSU GE C1 and/or C2 designa		C1/C2	N/A	<b>✓</b>	V	6 semester credits in BSCS; 6 semester credits in BSBA	
		I GOV OD D. W. L. D.			2711			o semester ereans in 2001	
Social Sciences	Elective for Social Science Elective for Social Science	Any course with CSU GE Breadth Area D  Any course with CSU GE Breadth Area D		D D	N/A N/A	<u>✓</u>	6 semester credits in BSCS:		
	Elective for Social Science	Any course with CSU GE Breadth Area D		D	N/A		<b>√</b>	9 semester credits in BSBA	
ote: Courses	without a CSU GE Breadth Designator will BSCS Major Co	be evaluated individually. Courses without a C	I-ID designator will be even	aluated individually.	RSRA M	ajor Courses	_		
ategory	SFBU Course	College Equivalent	Category	SFBU Course	DSDA NI	ajor Courses	College Equiv	valent	
Core Courses (65 units BSCS)			Core Courses (60 units BSBA)		ACC 110 FINANCIAL ACCOUNTING  BAN199 EXCEL FOR FINANCE.		BUS 120 FINANCIAL ACCOUNTING  BOT 123 COMPREHENSIVE EXCEL, LEV		
	CE305 COMPUTER ORGANIZATION	CSIS 165 ASSEMBLY LANGUAGE &		BAN199 FYCE					
		MACHINE ARCHITECTURE		ACCOUNTING & ANALYTICS			and		
	CS200 DISCRETE LOGIC	CSIS 240 DISCRETE STRUCTURES					BOT 124 COMPREHENSIVE EXCEL, LEV II		
		MATH 245 DISCRETE MATHEMATICS		LAW	LAW			BUS 125 BUSINESS LAW: LEGAL ENVIRONMENT OF BUSINESS	
	CS230 LINUX & SHELL SCRIPTING <u>and</u> CS230L LINUX & SHELL SCRIPTING LAB	CSIS 113 INTRODUCTION TO LINUX (SFBU lecture course needed for unit difference)		WRITING				No Equivalent  ECON 120 PRINCIPLES OF MACROECONOMICS	
	CS250 INTRODUCTION TO PROGRAMMING <b>and</b> CS250L INTRODUCTION TO PROGRAMMING LAB	CSIS 250 INTRODUCTION TO PYTHON PROGRAMMING			ECON 201 PRINCIPLES OF MACROECONOMICS				
	CS350 DATA STRUCTURES and CS350L DATA STRUCTURES LAB	CSIS 251 INTERMEDIATE PYTHON PROGRAMMING & FUNDAMENTAL DATA			ECON 202 PRINCIPLES OF MICROECONOMICS			ECON 121 PRINCIPLES OF MICROECONOMICS	
	CSSSED ATTORNOOT ON ASSETS	STRUCTURES or CSIS 294 INTERMEDIATE JAVA PROGRAMMING & FUNDAMENTAL DATA	7A		FIN310 FUNDAMENTALS OF FINANCE			No Equivalent	
	CS360 PROGRAMMING IN C & C++ and CS360L PROGRAMMING IN C & C++	STRUCTURES CSIS 296 INTRODUCTION TO C†† PROGRAMMING	_	MGT310 PRINO	MGT310 PRINCIPLES OF MANAGEMENT			BUS 156 PRINCIPLES OF MANAGEMENT	
	LAB CS380 OPERATING SYSTEMS	No Equivalent	-		MKT221 HTML & CSS WEB PAGE			CSIS 132 INTRODUCTION TO WEB	
	CS455 ALGORITHMS & STRUCTURED	No Equivalent		CONSTRUCTIO	CONSTRUCTION  MKT310 PRINCIPLES OF MARKETING P450 CAREER DEVELOPMENT		DEVELOPMENT OF. CSIS 133 INTERMEDIATE WEB DEVELOPMENT BUS 146 MARKETING COUN 110 CAREER DECISION MAKING		
	PROGRAMMING	_	-	NOTE TO DE LA					
	CS457 DATA MODELING & IMPLEMENTATION TECH <u>and</u> CS457L DATABASE TECHNOLOGIES	CSIS 276 INTRODUCTION TO SQL and CSIS 180 FUNDAMENTALS OF DATABASE DESIGN (Meets CS457 requirement; CS457L not							
	LAB CS480 JAVA & INTERNET APPLICATIONS	met) No Equivalent	Specialization Courses (15 units BSBA)		ACC110L FINANCIAL ACCOUNTING LAB		No Equivalent  BUS 121 MANAGERIAL ACCOUNTING		
	CS480L JAVA PROGRAMMING LAB	CSIS 293 INTRODUCTION TO JAVA	(Fo tillits DSDA)	ACC120L MAN	ACC120L MANAGERIAL ACCOUNTING LAB				
		PROGRAMMING						BUS 159A MANAGEMENT INTERNSHIP, BUS 159B MANAGEMENT INTERNSHIP IS BUS 159D MANAGEMENT INTERNSHIP IS BUS 159D MANAGEMENT INTERNSHIP IS BUS 159A MANAGEMENT INTERNSHIP IS BUS 159B MANAGEMENT INTERNSHIP IS BUS 159C MANAGEMENT INTERNSHIP IS BUS 159D MANAGEMENT INTERNSHIP IS BUS 159D MANAGEMENT INTERNSHIP IS CISIS 276 INTRODUCTION TO SQL	
	CS483 FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE <u>and</u> CS483L AI & MACHINE LEARNING LAB	No Equivalent		CP1401 CURRI	CPT401 CURRICULAR PRACTICUM				
	CS487 OBJECT-ORIENTED DESIGN & IMPLEMENTATION	No Equivalent		CPT402 CURRI					
	CS494 SENIOR DESIGN PROJECT-I	No Equivalent			BAN223 SQL & RELATIONAL DATABASES				
	P450 CAREER DEVELOPMENT	COUN 110 CAREER DECISION MAKING		COMMERCE				CSIS 250 INTRODUCTION TO PYTHON PROGRAMMING	
pecialization	CE450 FUNDAMENTALS OF EMBEDDED ENGINEERING	CSIS 255 INTRODUCTION TO PROGRAMMABLE LOGIC CONTROLLERS		BAN337 JAVAS	BAN337 JAVASCRIPT			CSIS 135 JAVASCRIPT PROGRAMMING	
Courses (15 units BSCS)	CS453 COMPILER DESIGN	No Equivalent	Electives (24 units BSBA)	Free Elective Co	Free Elective Courses		Any course identified as transferable to CSU o		
	CS470 NETWORK ENGINEERING & MANAGEMENT	No Equivalent	33311)						
	CS477 ETHICAL HACKING &	CSIS 264 ETHICAL CYBERSECURITY							
	PENETRATION TESTING CS 478 BLOCKCHAIN TECHNOLOGY &	HACKING No Equivalent	-						
	APPLICATIONS CS481 INTRODUCTION TO DATA	No Equivalent			r of Science in Business Administration (BSBA) who have successfull as determined by American River College with a GPA of 2.5 or higher				
	SCIENCE	•	accepted into the BSB.	A program upon con	rogram upon completing their admission documen			tation. The number of units transferable in	
	CS485 JAVASCRIPT & INTERNET PROGRAMING	CSIS 135 JAVASCRIPT PROGRAMMING	the	DDF1 depends off t	topic area iii	on the AD1,	1, 01 A5-1	THE CHINE.	
lectives	Free Elective Courses	Any course identified as transferable to CSU or UC							