

Articulation Agreement (2021)

Northwestern Polytechnic University (NPU) & Bakersfield College

NPU Bachelor of Science in Computer Science (BSCS)					
NPU Degree Requirements	Required NPU course or course category	Specific Bakersfield College Course(s) (2020 – 2021 Catalog)	CSU GE Breadth ¹ equivalent	C-ID ² equivalent	
General Education Requirements (40 semester Units)	English & Communications (12 semester credits)	ENGL 101 Expository Writing	ENGL B1A Expository Composition or ENGL B1AL Expository Composition with Supplemental Instruction	A2/A3	ENGL 100/ ENGL 110
		ENGL 115 Public Speaking	COMM B1 Public Speaking	A1	COMM 110
		ENGL 425 Modern American Literature	ENGL B30A Survey of American Literature or ENGL B30B Survey of American Literature	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
	Humanities (6 semester credits)	6 credits in area	Any course with a CSU GE C1 and/or C2 designator	C1/C2	n/a
	Mathematics and Natural Sciences (16 semester credits in BSCS)	MATH 201 Calculus I	MATH B6A Analytic Geometry/Calculus I	n/a	MATH 210
		MATH 202 Calculus II	MATH B6B Analytic Geometry/Calculus II	n/a	MATH 220
		MATH 203 Linear Algebra	MATH B6E Elementary Linear Algebra	n/a	MATH 250
		MATH 208 Probability and Statistics	MATH B22 Elementary Probability & Statistics or MATH B22L Elementary Probability & Statistics w/Lab	n/a	MATH 110
		PHYS 201/201L Physics I with Lab	PHYS B4A Mechanics & Wave Motion, 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

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 (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	ENGL B100 Technical Writing	n/a	BUS 115
	CE305 Computer Organization	COMP B13 Computer Architecture & Organization	n/a	COMP 142
	CS 200 Discrete Logic	COMP B14 Discrete Structures	n/a	COMP 152
	CS250/250L Introduction to Programming/Lab	COMP B11 Programming Concepts & Methodology I <u>and</u> COMP B10 Introduction to Programming Methodologies	n/a	n/a
	CS360/360L Programming in C and C++/Lab	ENGR B19C Introduction to Programming Concepts & Methodologies for Engineers	n/a	COMP 122
	CS457/457L Data Modeling & Implementation Tech/Database Technologies Lab	COMP B21 Database Systems - Design & Structured Query Language (SQL) <i>Meets requirement for CS 457 but not CS 457L</i>	n/a	n/a
	P450 Career Development	STDV B2 Lifelong Learning & Career Planning <u>or</u> STDV B3 Career & Life Planning	n/a	n/a
	All other core course requirements not listed above (22 units)	No equivalent courses	n/a	n/a
Specialization Course Requirement (15 units BSCS)	CS470 Network Engineering and Management	COMP B33 CompTIA Networking Technologies - Network+	n/a	n/a
	CS 477 Ethical Hacking & Penetration Testing	COMP B36 Introduction to Cybersecurity: Ethical Hacking	n/a	n/a
	All other specialization courses not listed above (9 units)	No equivalent courses	n/a	n/a

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Electives	15 semester credits in area	15 semester credits Any course identified as transferable to CSU or UC.	n/a	n/a
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NPU Bachelor of Science in Business Administration (BSBA)					
NPU Degree Requirements	Required NPU course or course category	Specific College of Bakersfield College Course(s) (2020 – 2021 Catalog)	CSU GE Breadth ¹ equivalent	C-ID ² equivalent	
General Education Requirements (36)	English & Communications (12 semester credits)	ENGL 101 Expository Writing	ENGL B1A Expository Composition <u>or</u> ENGL B1AL Expository Composition with Supplemental Instruction	A2/A3	ENGL 100/ ENGL110
		ENGL 115 Public Speaking	COMM B1 Public Speaking	A1	COMM 110
		ENGL 425 Modern American Literature	ENGL B30A Survey of American Literature <u>or</u> ENGL B30B Survey of American Literature	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
		Humanities (6 semester credits)	6 credits in area	Any course with a CSU GE C1 and/or C2 designator	C1/C2
	Mathematics and Natural Sciences	MATH 208 Probability and Statistics	MATH B22 Elementary Probability & Statistics <u>or</u> MATH B22L Elementary Probability & Statistics w/Lab	n/a	MATH 110

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(9 semester credits in BSBA)	PHYS 101 Introduction to Physical Sciences	PHYS B2A General Physics-Mechanics & Heat, 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
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)	ACC 201 Principles of Accounting I	BSAD B1 Financial Accounting	n/a	ACCT 110
	BLAW310 Introduction to Business Law	BSAD B18 Business Law	n/a	BUS 125
	BUS450 Professional & Technical Writing	ENGLB 100 Technical Writing	n/a	n/a
	ECON 201 Macroeconomics	ECON B2 Principles of Economics-Macro	n/a	ECON 202
	ECON 202 Microeconomics	ECON B1 Principles of Economics-Micro	n/a	ECON 201
	IT221 HTML & CSS Web Page Construction	COMP B42 Web Design: HTML & CSS	n/a	n/a
	MGT 451 Agile Project Management	INDA B132 Project Management	n/a	n/a
	MKT310 Principles of Marketing	JRNL B5 Public Relations	n/a	n/a
	P450 Career Development	STDV B2 Lifelong Learning & Career Planning <u>or</u> STDV B3 Career & Life Planning	n/a	n/a
	All other major course requirements not listed above (25 units)	No equivalent courses	n/a	n/a
	ACC202 Principles of Accounting II	BSAD B2 Managerial Accounting	n/a	ACCT 120

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Specialization Course Requirement (15 units BSBA)	IT223 SQL & Relational Databases	COMP B94 Web Design: PHP & MYSQL <u>or</u> COMP B21 Database Systems - Design & Structured Query Language (SQL) <u>or</u> COMP B72 Applied Software Design	n/a	ITIS 180
	IT335 Python Introduction for Commerce	COMP B10 Introduction to Programming Methodologies Using Python	n/a	ITIS 180
	IT337 JavaScript	COMP B43 Web Design: Javascript	n/a	n/a
	All other core courses not listed above (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, NPU staff is responsible for updating the agreement.

Monica Sinha, Director of Admissions & Special Projects
NPU Staff Member (name, title)

July 9, 2021
Date