

Northwestern Polytechnic University (NPU) & Cañada College

NPU Bachelor of Science in Computer Science (BSCS)					
NPU Degree Requirements	Required NPU course or course category	Specific Cañada 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 100 Reading & Composition or ENGL 105 Intensive Composition & Reading	A2/A3	ENGL 100/ ENGL 110
		ENGL 115 Public Speaking	COMM 110 Public Speaking	A1	COMM 110
		ENGL 425 Modern American Literature	LIT. 200 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 251 Analytical Geometry & Calculus I	n/a	MATH 210
		MATH 202 Calculus II	MATH 252 Analytical Geometry & Calculus II	n/a	MATH 220
		MATH 203 Linear Algebra	MATH 270 Linear Algebra	n/a	MATH 250
		MATH 208 Probability and Statistics	MATH 200 Elementary Probability & Statistics	n/a	MATH 110
		PHYS 201/201L Physics I with Lab	PHYS 250 Physics with Calculus I, 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
	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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Major Course Requirements (65 credits BSCS)				
Core Course Requirements (50 units BSCS)	CE305 Computer Organization	CIS 242 Computer Architecture & Assembly Language	n/a	COMP 142
	CS 200 Discrete Logic	CIS 262 Discrete Mathematics for Computer Science	n/a	COMP 152
	CS250/250L Introduction to Programming/Lab	CIS 122 Introduction to Programming: Python (Meets CS250 requirement; CS250L not met)	n/a	n/a
	CS350/350L Data Structures/Lab	CIS 252 Introduction to Data Structures - C++ <u>or</u> CIS 286 Introduction to Data Structures – JAVA (Meets CS350 requirement; CS350L not met)	n/a	COMP 132
	CS360/360L Programming in C and C++/Lab	CIS 118 Introduction to Computer Science	n/a	COMP 122
	CS457/457L Data Modeling & Implementation Tech/Database Technologies Lab	CIS 680CF Introduction to Relational Databases (Meets CS457 requirement; CS457L not met)	n/a	n/a
	P450 Career Development	CRER 137 Life & Career Planning	n/a	n/a
	All other major course requirements not listed above (30 units)	No equivalent courses	n/a	n/a
Specialization Course Requirement (15 units BSCS)	Complete Five Specialization Courses (15 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

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NPU Bachelor of Science in Business Administration (BSBA)					
NPU Degree Requirements	Required NPU course or course category	Specific College of Cañada College Course(s) (2020 – 2021 Catalog)	CSU GE Breadth ¹ equivalent	C-ID ² equivalent	
General Education Requirements (36 semester Units)	English & Communications (12 semester credits)	ENGL 101 Expository Writing	ENGL 100 Reading & Composition <u>or</u> ENGL 105 Intensive Composition & Reading	A2/A3	ENGL 100/ ENGL110
		ENGL 115 Public Speaking	COMM 110 Public Speaking	A1	COMM 110
		ENGL 425 Modern American Literature	LIT. 200 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 (9 semester credits in BSBA)	MATH 208 Probability and Statistics	MATH 200 Elementary Probability & Statistics	n/a	MATH 110
		PHYS 101 Introduction to Physical Sciences	PHYS 114 Survey of Chemistry & Physics <u>or</u> PHYS 210 General Physics I, <u>or</u> 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

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² Courses without a C-ID designator will be evaluated individually

Northwestern Polytechnic University (NPU) & Cañada College

Major Course Requirements (60 credits BSBA)				
Core Course Requirements (45 credits BSBA)	ACC 201 Principles of Accounting I	ACTG 121 Financial Accounting	n/a	ACCT 110
	BAN199 Excel for Finance, Accounting & Analytics	CBOT 435 Spreadsheets	n/a	n/a
	BLAW310 Introduction to Business Law	BUS. 201 Business Law <u>or</u> LEGL 264 Contracts	n/a	BUS 125
	ECON 201 Macroeconomics	ECON 100 Principles of Macro Economics	n/a	ECON 202
	ECON 202 Microeconomics	ECON 102 Principles of Micro Economics	n/a	ECON 201
	MGT 310 Principles of Management	MGMT 100 Introduction to Business Management	n/a	n/a
	MGT 450 Organizational Behavior and Management	BUS. 101 Human Relations in The Workplace	n/a	n/a
	MGT 451 Agile Project Management	MART 450 Collaborative Game Production	n/a	n/a
	MGT 480 Entrepreneurship	BUS. 150 Entrepreneurship: Small Business Management	n/a	n/a
	MKT310 Principles of Marketing	BUS. 180 Marketing	n/a	n/a
	P450 Career Development	CRER 137 Life & Career Planning	n/a	n/a
	All other major course requirements not listed above (12 units)	No equivalent courses	n/a	n/a
Specialization Course Requirement (15 units BSBA)	ACC202 Principles of Accounting II	ACTG 131 Managerial Accounting	n/a	ACCT 120
	ACC490 Introduction to Taxation	ACTG 181 Taxation of Individuals Using Tax Software	n/a	n/a
	IT223 SQL & Relational Databases	CIS 680CF Introduction to Relational Databases	n/a	ITIS 180
	IT335 Python Introduction for Commerce	CIS 122 Introduction to Programming: Python	n/a	ITIS 180

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	IT337 JavaScript	MART 385 Coding for Designers & Artists	n/a	n/a
	IT461 Interaction Design (IxD)	MART 394 Interaction Design <u>or</u> MART 371 User Interface/User Experience Design		
	Complete Five Specialization Courses from above (15 units)	Equivalent courses above	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