

Articulation Agreement (2021)

Northwestern Polytechnic University (NPU) & Ohlone College

NPU Bachelor of Science in Computer Science (BSCS)					
NPU Degree Requirements	Required NPU course or course category	Specific Ohlone 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-101A Reading & Written Composition	A2/A3	ENGL 100/ ENGL 110
		ENGL 115 Public Speaking	COMM-111 Introduction to Public Speaking	A1	COMM 110
		ENGL 425 Modern American Literature	ENGL-120B Survey of American Literature: 1865 to 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
	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-101A Calculus with Analytic Geometry	n/a	MATH 210
		MATH 202 Calculus II	MATH-101B Calculus with Analytic Geometry	n/a	MATH 220
		MATH 203 Linear Algebra	MATH-103 Introduction to Linear Algebra	n/a	MATH 250
		MATH 208 Probability and Statistics	MATH-159 Introduction to Statistics	n/a	MATH 110
		PHYS 201/201L Physics I with Lab	PHYS-140 Mechanics, 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	SOC 450 Emotional Intelligence	No equivalent courses	n/a	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

Articulation Agreement (2021)

Northwestern Polytechnic University (NPU) & Ohlone College

(6 semester credits)	3 additional credits in area	3 semester credits Any course(s) with CSU GE Breadth Area D	D	n/a
Major course requirements (65 units BSCS)	BUS450 Professional & Technical Writing	ENGL-156 Introduction to Report & Technical Writing	n/a	BUS 115
	CS 200 Discrete Logic	CS-113 Discrete Structures	n/a	COMP 152
	CS230/230L Linux & Shell Scripting/Lab	CS-147 UNIX/LINUX Shell Scripting <u>or</u> CNET-147 UNIX/LINUX Shell Scripting	n/a	n/a
	CS250/250L Introduction to Programming/Lab	CNET-142 Introduction to Programming with Python	n/a	n/a
	CS360/360L Programming in C & C++/Lab	CS 116 Object-Oriented Programming Using C++	n/a	COMP 122
	CS457/457L Data Modeling & Implementation Tech/Database Technologies Lab	CNET-137 Introduction to SQL <u>or</u> CS-137 Introduction to SQL	n/a	n/a
	CS470 Network Engineering and Management	CNET-155A Introduction to Networks (CCNA1)	n/a	n/a
	CS 477 Ethical Hacking & Penetration Testing	CNET-173 Ethical Hacking	n/a	n/a
	CS480/480L Java and Internet Applications/ Java Programming Lab	CS-170 Intermediate Java Programming	n/a	n/a
	P450 Career Development	BA-115 Career Communication <u>or</u> PD-150 Career & Life Planning	n/a	n/a
	All other major course requirements not listed above (32 units)	No equivalent courses	n/a	n/a

Articulation Agreement (2021)

Northwestern Polytechnic University (NPU) & Ohlone College

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's in Business Administration & Information Sciences (BBAIS)					
NPU Degree Requirements	Required NPU course or course category	Specific College of Ohlone College Course(s) (2020 – 2021 Catalog)	CSU GE Breadth ¹ equivalent	C-ID ² equivalent	
General Education Requirements (36 semester credits)	English & Communications (12 semester credits)	ENGL 101 Expository Writing	ENGL-101A Reading & Written Composition	A2/A3	ENGL 100/ ENGL110
		ENGL 115 Public Speaking	COMM-111 Introduction to Public Speaking	A1	COMM 110
		ENGL 425 Modern American Literature	ENGL-120B Survey of American Literature: 1865 to 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
	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 BBAIS)	MATH 208 Probability and Statistics	MATH-159 Introduction to Statistics	n/a	MATH 110
		PHYS 101 Introduction to Physical Sciences	PHYS-120 Introduction to Physics I, 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	

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Articulation Agreement (2021)

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Social Sciences (9 semester credits)	SOC 450 Emotional Intelligence	No equivalent courses	n/a	n/a
	6 additional credits in area	6 semester credits Any course(s) with CSU GE Breadth Area D	D	n/a
Major Requirements (60 trimester credits BBAIS)	ACC 201 Principles of Accounting I	BA-101A Financial Accounting	n/a	ACCT 110
	ACC 202 Principles of Accounting II	BA-101B Managerial Accounting	n/a	ACCT 120
	BLAW310 Introduction to Business Law	BA-141A Business Law	n/a	BUS 125
	BUS450 Professional & Technical Writing	ENGL-156 Introduction to Report and Technical Writing	n/a	n/a
	ECON 201 Macroeconomics	BA-102A Principles of Economics-Macroeconomics	n/a	ECON 202
	ECON 202 Microeconomics	BA-102B Principles of Economics-Microeconomics	n/a	ECON 201
	IT221 HTML & CSS Web Page Construction	CS-162 XHTML <u>or</u> MM-105 Introduction to Web Design	n/a	n/a
	IT223 SQL & Relational Databases	CS-137 Introduction to SQL <u>or</u> CNET-137 Introduction to SQL <u>or</u> CNET-138 PL/SQL Programming	n/a	ITIS 180
	IT335 Python Introduction for Commerce	CNET-142 Introduction to Programming with Python	n/a	ITIS 180
	IT337 JavaScript	CS-175 Javascript for Web Development	n/a	n/a
	MGT 310 Principles of Management	BSM-101 Fundamentals of Supervision <u>or</u> BSM-108 Leadership in Organizations	n/a	n/a
	MGT 450 Organizational Behavior and Management	BA-139 Psychology in the Workplace	n/a	n/a
	MGT 451 Agile Project Management	CNET-108 IT Project Management	n/a	n/a
	MGT 460 Production & Operations Management	BSM-105 Operations Management	n/a	n/a

Articulation Agreement (2021)

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	P450 Career Development	BA-115 Career Communication <u>or</u> PD-150 Career & Life Planning	n/a	n/a
	All other major course requirements not listed above (17 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)

April 7, 2021

Date