

## Articulation Agreement (2021)

### Northwestern Polytechnic University (NPU) & San Jose City College

NPU Bachelor of Science in Computer Science (BSCS)					
NPU Degree Requirements		Required NPU course or course category	Specific San Jose City College Course(s) (2021 Catalog)	CSU GE Breadth <sup>1</sup> equivalent	C-ID <sup>2</sup> equivalent
General Education Requirements (40 semester Units)	English & Communications (12 semester credits)	<b>ENGL 101</b> Expository Writing	<b>ENGL 001A</b>	A2	ENGL 100
		<b>ENGL 115</b> Public Speaking	<b>COMS 020</b>	A1	COMM 110
		<b>ENGL 425</b> Modern American Literature	<b>ENGL 084B</b>	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)	<b>MATH 201</b> Calculus I	<b>MATH 071</b>	B4	MATH 210
		<b>MATH 202</b> Calculus II	<b>Math 072</b>	B4	MATH 220
		<b>MATH 203</b> Linear Algebra	<b>MATH 079</b>	B4	MATH 250
		<b>MATH 208</b> Probability and Statistics	<b>MATH 063</b>	B4	MATH 110
		<b>PHYS 201/201L</b> Physics I with Lab	<b>PHYS 004A</b> or a CSU GE Breadth designator B1 or B2 course (with a B3 lab) earning 4(+) semester units	B1, B3	PHYS 205
	Social Sciences (6 semester credits)	<b>SOC 450</b> Emotional Intelligence	No equivalent courses	n/a	n/a
		3 additional credits in area	3 semester credits Any course(s) with CSU GE Breadth Area D	D	n/a

<sup>1</sup> Courses without a CSU GE Breadth Designator will be evaluated individually

<sup>2</sup> Courses without a C-ID designator will be evaluated individually

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### Northwestern Polytechnic University (NPU) & San Jose City College

<b>Major course requirements</b> (65 units BSCS)	<b>CS 200</b> Discrete Logic	<b>MATH 070</b>	B4	COMP 160
	<b>CS230/230L</b> Unix/Linux & Shell Scripting/Lab	<b>CIS 157</b> <u>and</u> <b>CIS 158</b>	n/a	n/a
	<b>CS350/350L</b> Data Structures/Lab	<b>CIS 055</b> <u>and</u> a relevant data organization course/lab <sup>3</sup>	n/a	COMP 132
	<b>CS360/360L</b> Programming in C and C++/Lab	<b>CIS 054</b> <u>and</u> a relevant programing language course/lab <sup>3</sup>	n/a	COMP 122
	<b>CS457/457L</b> Data Modeling & Implementation Tech/Database Technologies Lab	<b>CIS 022</b> <u>and</u> <b>CIS 037</b>	n/a	n/a
	<b>CS 477</b> Ethical Hacking & Penetration Testing	<b>CIS 164</b>	n/a	n/a
	<b>CS480/480L</b> Java and Internet Applications/ Java Programming Lab	<b>CIS 084</b> <u>and</u> a relevant programing language course/lab <sup>3</sup>	n/a	n/a
	<b>CS487</b> Object-Oriented Design and Implementations	<b>CIS 059</b>	n/a	COMP 132
	<b>P450</b> Career Development	<b>GUIDE 096</b>	n/a	n/a
	All other major course requirements not listed above (35 units)	No equivalent courses	n/a	n/a
<b>Electives</b>	15 semester credits in area	15 semester credits Any course identified as transferable to CSU or UC.	n/a	n/a

<sup>3</sup> Courses combined to meet unit requirement will be evaluated individually

## Articulation Agreement (2021)

### Northwestern Polytechnic University (NPU) & San Jose City College

NPU Bachelor's in Business Administration & Information Sciences (BBAIS)					
NPU Degree Requirements	Required NPU course or course category	Specific College of San Jose City College Course(s) (2021 Catalog)	CSU GE Breadth <sup>1</sup> equivalent	C-ID <sup>2</sup> equivalent	
<b>General Education Requirements (36 semester Units)</b>	<b>English &amp; Communications</b> (12 semester credits)	<b>ENGL 101</b> Expository Writing	<b>ENGL 001A</b>	A2	ENGL 100
		<b>ENGL 115</b> Public Speaking	<b>ENGL 001B</b>	A1	COMM 110
		<b>ENGL 425</b> Modern American Literature	<b>ENGL 084B</b>	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
	<b>Humanities</b> (6 semester credits)	6 credits in area	Any course with a CSU GE C1 and/or C2 designator	C1/C2	n/a
	<b>Mathematics and Natural Sciences</b> (9 semester credits in BBAIS)	<b>MATH 208</b> Probability and Statistics	<b>MATH 063</b> or <b>BUS 060</b>	B4	MATH 110
		<b>PHYS 101</b> Introduction to Physical Sciences	Physical Sciences or Biological Science courses (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
	<b>Social Sciences</b> (9 semester credits)	<b>SOC 450</b> 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

<sup>1</sup> Courses without a CSU GE Breadth Designator will be evaluated individually

<sup>2</sup> Courses without a C-ID designator will be evaluated individually

<sup>3</sup> Courses combined to meet unit requirement will be evaluated individually

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### Northwestern Polytechnic University (NPU) & San Jose City College

<b>Major Requirements</b> (60 trimester credits BBAIS)	<b>ACC 201</b> Principles of Accounting I	<b>ACCTG 020</b>	n/a	ACCT 110
	<b>ACC 202</b> Principles of Accounting II	<b>ACCTG 021</b>	n/a	ACCT 120
	<b>BAN199</b> Excel for Finance, Accounting & Analytics	<b>CA 050D and CA 055</b>	n/a	n/a
	<b>BLAW310</b> Introduction to Business Law	<b>BUS 071</b>	n/a	BUS 120
	<b>ECON 201</b> Macroeconomics	<b>ECON 010A</b>	D	ECON 202
	<b>ECON 202</b> Microeconomics	<b>ECON 010B</b>	D	ECON 201
	<b>IT221</b> HTML & CSS Web Page Construction	<b>CIS 132</b>	n/a	n/a
	<b>IT223</b> SQL & Relational Databases	<b>CIS 037 or CIS 122</b>	n/a	ITIS 180
	<b>IT335</b> Python Introduction for Commerce	<b>CIS 024C or CIS 106</b>	n/a	ITIS 180
	<b>IT337</b> JavaScript	<b>CIS 023 or CIS 023A</b>	n/a	n/a
	<b>MGT 310</b> Principles of Management	<b>BUS 113</b>	n/a	n/a
	<b>MGT 450</b> Organizational Behavior and Management	<b>BUS 135</b>	n/a	n/a
	<b>MGT 480</b> Entrepreneurship	<b>BUS 068</b>	n/a	n/a
	<b>MKT310</b> Principles of Marketing	<b>BUS 120 or BUS 112</b>	n/a	n/a
	<b>P450</b> Career Development	<b>GUIDE 096</b>	n/a	n/a
All other major course requirements not listed above (21 units)	No equivalent courses	n/a	n/a	
<b>Electives</b>	24 semester credits in area	24 semester credits Any course identified as transferable to CSU or UC.	n/a	n/a

## **Articulation Agreement (2021)**

### **Northwestern Polytechnic University (NPU) & San Jose City College**

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)

**January 25, 2021**

Date