

Articulation Agreement (2021)

Northwestern Polytechnic University (NPU) & Madera Community College

NPU Bachelor of Science in Computer Science (BSCS)					
NPU Degree Requirements	Required NPU course or course category	Specific Madera Community 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 1A Reading & Composition or ENGL 1AH Honors Reading & Composition	A2/A3	ENGL 100/ ENGL 110
		ENGL 115 Public Speaking	COMM 1 Public Speaking or COMM 1H Honors Public Speaking	A1	COMM 110
		ENGL 425 Modern American Literature	ENGL 43B American Literature: 1877 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 5A Analysis I	B4	MATH 210
		MATH 202 Calculus II	MATH 5B Analysis II	B4	MATH 220
		MATH 203 Linear Algebra	MATH 17 Differential Equations & Linear Algebra	B4	MATH 250
		MATH 208 Probability and Statistics	MATH 11 Elementary Statistics or MATH 11C Elementary Statistics with Support or STAT 7 Elementary Statistics or PLS 9 Biometrics or PSY 42 Statistics for the Behavioral Sciences	B4	MATH 110
		PHYS 201/201L Physics I with Lab	PHYS 4A Physics for Scientists & Engineers , 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)	SOC 450 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
Major course requirements (65 units BSCS)	CE305 Computer Organization	CSCI 45 Computer Organization & Assembly Language Programming	n/a	COMP 142
	CS 200 Discrete Logic	CSCI 26 Discrete Mathematics for Computer Science	n/a	COMP 152
	CS350/350L Data Structures/Lab	CSCI 41 Programming Concepts & Methodology II	n/a	COMP 132
	CS380 Operating Systems	IS 60 Operating Systems	n/a	n/a
	CS457/457L Data Modeling & Implementation Tech/Database Technologies Lab	IS 26A Database Concepts & Design and IS 26B Advanced Database Concepts & Design	n/a	n/a
	CS470 Network Engineering and Management	IS 63 Computer Networking I	n/a	n/a
	CS 477 Ethical Hacking & Penetration Testing	IS 71 Cyber Security: Ethical Hacking	n/a	n/a
	CS480/480L Java and Internet Applications/ Java Programming Lab	IS 33 Beginning Java Programming or CSCI 5 Java Programming	n/a	n/a
	P450 Career Development	COUN 34 Career Awareness	n/a	n/a
	All other major course requirements not listed above (37 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's in Business Administration & Information Sciences (BBAIS)					
NPU Degree Requirements	Required NPU course or course category	Specific College of Madera Community 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 1A Reading & Composition or ENGL 1AH Honors Reading & Composition	A2/A3	ENGL 100/ ENGL110
		ENGL 115 Public Speaking	COMM 1 Public Speaking or COMM 1H Honors Public Speaking	A1	COMM 110
		ENGL 425 Modern American Literature	ENGL 43B American Literature: 1877 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 11 Elementary Statistics or MATH 11C Elementary Statistics with Support or STAT 7 Elementary Statistics or PLS 9 Biometrics or PSY 42 Statistics for the Behavioral Sciences	B4	MATH 110
		PHYS 101 Introduction to Physical Sciences	PHYS 2A General 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
	Social Sciences	SOC 450 Emotional Intelligence	No equivalent courses	n/a	n/a

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(9 semester credits)	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	ACCTG 4A Financial Accounting	n/a	ACCT 110
	ACC 202 Principles of Accounting II	ACCTG 4B Managerial Accounting	n/a	ACCT 120
	BLAW310 Introduction to Business Law	BA 18 Business Law & The Legal Environment	n/a	BUS 125
	BUS450 Professional & Technical Writing	BA 5 Business Communications	n/a	n/a
	ECON 201 Macroeconomics	ECON 1A Principles of Macroeconomics	n/a	ECON 202
	ECON 202 Microeconomics	ECON 1B Principles of Microeconomics	n/a	ECON 201
	IT221 HTML & CSS Web Page Construction	IS 40A Web Development with Html or IS 40B Advanced Web Development	n/a	n/a
	IT223 SQL & Relational Databases	IS 26A Database Concepts & Design	n/a	ITIS 180
	MGT 310 Principles of Management	BA 15 Introduction to Management	n/a	n/a
	MGT 480 Entrepreneurship	BA 52 Introduction to Entrepreneurship	n/a	n/a
	MKT310 Principles of Marketing	MKTG 10 Marketing	n/a	n/a
	P450 Career Development	COUN 34 Career Awareness	n/a	n/a
	All other major course requirements not listed above (26 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

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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)

February 16, 2021

Date