

Northwestern Polytechnic University (NPU) & Santa Rosa Junior College

NPU Bachelor of Science in Computer Science (BSCS)					
NPU Degree Requirements	Required NPU course or course category	Specific Santa Rosa Junior 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 College Composition <u>or</u> ESL 10 ESL College Composition	A2/A3	ENGL 100/ ENGL 110
		ENGL 115 Public Speaking	BMG 53 Oral Communication in Organizations <u>or</u> COMM 1 Introduction to Public Speaking	A1	COMM 110
		ENGL 425 Modern American Literature	ENGL 30.2 American Literature From 1865 to the 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 1A Calculus, First Course	n/a	MATH 210
		MATH 202 Calculus II	MATH 1B Calculus, Second Course	n/a	MATH 220
		MATH 203 Linear Algebra	MATH 5 Introduction to Linear Algebra	n/a	MATH 250
		MATH 208 Probability and Statistics	MATH 15 Elementary Statistics	n/a	MATH 110
		PHYS 201/201L Physics I with Lab	PHYS 20A General Physics Part I, <u>or</u> 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)	CE305 Computer Organization	CS 12 Assembly Language Programming/Computer Architecture	n/a	COMP 142
	CS 200 Discrete Logic	MATH 4 Discrete Mathematics	n/a	COMP 152
	CS230/230L Linux & Shell Scripting/Lab	CS 81.21 Introduction to Linux <i>(Meets CS230 requirement; CS230L requirement not met)</i>	n/a	n/a
	CS250/250L Introduction to Programming/Lab	CS 81.41A Programming Essentials in Python for Networking	n/a	n/a
	CS350/350L Data Structures/Lab	CS 10C Programming Concepts & Methodologies 2	n/a	COMP 132
	CS360/360L Programming in C and C++/Lab	CS 10B Programming Concepts & Methodologies 1	n/a	COMP 122
	CS457/457L Data Modeling & Implementation Tech/Database Technologies Lab	CS 81.62 Relational Database Concepts & Structured Query Language <i>(Meets CS457 requirement; CS457L requirement not met)</i>	n/a	n/a
	CS480/480L Java and Internet Applications/ Java Programming Lab	CS 17.11 Java Programming <i>(Meets CS480 requirement; CS480L requirement not met)</i>	n/a	n/a
	P450 Career Development	COUN 6 Introduction to Career Development	n/a	n/a
	All other major course requirements not listed above (20 units)	No equivalent courses	n/a	n/a
Specialization Course Requirement	CE450 Fundamentals of Embedded Engineering	ELEC 54C Microcontrollers & Embedded Systems	n/a	n/a

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(15 units BSCS)	CS470 Network Engineering and Management	CS 82.22A Introduction to Networks	n/a	n/a
	CS485 JavaScript & Internet Programing	CS 50C Web Development 3- Javascript	n/a	n/a
	Complete 1 Additional Specialization Course (3 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 Santa Rosa Junior 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 College Composition or ESL 10 ESL College Composition	A2/A3	ENGL 100/ ENGL110
		ENGL 115 Public Speaking	BMG 53 Oral Communication in Organizations or COMM 1 Introduction to Public Speaking	A1	COMM 110
		ENGL 425 Modern American Literature	ENGL 30.2 American Literature From 1865 to the 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 BSBA)	MATH 208 Probability and Statistics	MATH 15 Elementary Statistics	n/a	MATH 110
		PHYS 101 Introduction to Physical Sciences	PHYS 11 Conceptual Physics, 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

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 (60 credits BSBA)				
Core Course Requirements (45 credits BSBA)	ACC 201 Principles of Accounting I	BAD 1 Financial Accounting	n/a	ACCT 110
	BAN199 Excel for Finance, Accounting & Analytics	CS 61.11A Microsoft Excel, Part 1 and (CS 61.11B Microsoft Excel, Part 2 or BAD 53 Introduction to Solving Business Problems with Spreadsheets)	n/a	n/a
	BLAW310 Introduction to Business Law	BAD 18 The Legal Environment of Business	n/a	BUS 125
	ECON 201 Macroeconomics	ECON 1 Principles of Macroeconomics	n/a	ECON 202
	ECON 202 Microeconomics	ECON 2 Principles of Microeconomics	n/a	ECON 201
	IT221 HTML & CSS Web Page Construction	CS 50A Web Development 1	n/a	n/a
	MGT 310 Principles of Management	BMG 50 Introduction to Management & Supervision	n/a	n/a
	MGT 450 Organizational Behavior and Management	BMG 63.1 Motivation & Empowerment and BMG 62.4 Managing Workgroups	n/a	n/a
	MKT310 Principles of Marketing	BMK 50 Marketing	n/a	n/a
	MKT 450 Marketing Management	BMK 54 Advertising, Branding, & Digital Marketing		
	P450 Career Development	COUN 6 Introduction to Career Development	n/a	n/a
	All other major course requirements not listed above (15 units)	No equivalent courses	n/a	n/a
Specialization Course Requirement (15 units BSBA)	ACC202 Principles of Accounting II	BAD 2 Managerial Accounting	n/a	ACCT 120
	ACC450 Managerial Accounting	BAD 57 Cost Accounting	n/a	n/a
	ACC490 Introduction to Taxation	BAD 59 Federal Income Tax Law	n/a	n/a
	IT223 SQL & Relational Databases	CS 81.62 Relational Database Concepts & Structured Query Language	n/a	ITIS 180

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	IT335 Python Introduction for Commerce	CS 55.13 Server-Side Web Development <u>or</u> CS 81.41A Programming Essentials in Python for Networking <u>or</u> (CS 63.11A Microsoft Access, Part 1 <u>and</u> CS 63.11B Microsoft Access, Part 2)	n/a	ITIS 180
	IT337 JavaScript	CS 50B Web Development 2 <u>or</u> CS 50C Web Development 3- Javascript	n/a	n/a
	Complete Five Specialization Courses from above	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