

# Lake Superior State University—Transfer Guide

## Bay de Noc Community College

Transfer Major: Bachelor of Science-Computer Engineering

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Bay College Courses	LSSU Equivalency	Additional LSSU Courses
<b>Michigan Transfer Agreement (MTA)</b>	<b>STUDENTS EARN MTA AT BAY COLLEGE</b>	
ENGL101 Rhetoric and Composition 3	ENGL110 First-Year Composition I 3	
XXXXxxx Communication Elective 3	XXXXxxx Communications Elective 3	
MATH141 Analytical Geo & Calc I 5	MATH151 Calculus 1 4+1	
CHEM110 General Chemistry I 5	CHEM115 General Chemistry 5	
PHYS205 Engineering Physics I 5	PHYS231 App Phy Engineer Scientist I 4+1	
XXXXxxx Social & Beh Science 6	XXXXxxx Social & Beh Science 6	
XXXXxxx Humanities 6	XXXXxxx Humanities 6	
<b>REQUIREMENTS</b>	<b>REQUIREMENTS</b>	<b>REQUIREMENTS</b>
CSCI101 Computer Science I 3	CSCI105 Intro Computer Programming 3	CSCI201 Data Structures 4
CSCI120 Princ of Programming 4	CSCI121 Princ of Programming 4	CSCI341 Discrete Structures 4
ELEC130 Circuit Fundamentals I 4	EGEE210 Circuit Analysis 4	or EGEE425 Digital Signal Processing (3 cr)
ELEC170 Digital I Fundamentals 4	EGEE125 Digital Fundamentals 4	CSCI434 Operating System Concepts 3
MATH141 From above MTA	MATH151 From above MTA	EGEE250 Microcontroller Fund 4
MATH142 Analytical Geo & Calc II 5	MATH152 Calculus II 4+1	EGEE280 Intro to Signal Processing 4
MATH243 Analytical Geo & Calc III 5	MATH251 Calculus III 4+1	EGEE320 Digital Design 4
MATH244 Differential Equations 3	MATH310 Differential Equations 3	EGEE355 Microcontroller Systems 4
PHYS205 From above MTA	PHYS231 From above MTA	EGEE370 Electronics Devices 4
PHYS206 Engineering Physics II 5	PHYS232 App Phy Engineer Scientist II 4+1	EGNR101 Waive for Transfer Students
<b>TECHNICAL ELECTIVE (min. 13 cr &amp; 6-10 max (2) 200-level from Bay and/or LSSU)</b>	<b>TECHNICAL ELECTIVES (min. 13 cr 6-10 max (2) 200-level from Bay and/or LSSU)</b>	EGNR140 Linear Alg / Num Methods 2
PHYS260 Statics (3 cr)	EGEM220 Statics (3 cr)	EGNR340 Num Methods for Engineers 1
ELEC290 Intro to Prog Logic Control (4 cr)	EGRS365 Prog Logic Controllers (3+1 cr)	EGNR346 Prob & Stats Lab for Engineers 1
MATH250 Intro to Linear Algebra (3 cr)	MATH305 Linear Algebra (3 cr)	MATH308 Prob & Math Statistics 3
	-see "Technical Elective" in the "Additional LSSU Courses" column for more options	<b>SENIOR YEAR EXPERIENCE (Select 1) 6-12</b>
<b>ELECTIVES (to reach min. 124 cr)</b>	<b>ELECTIVES (to reach min. 124 cr)</b>	Industrial: EGNR491 & 495
		Cooperative: EGNR250, 450, 451, & 491
		Research: EGNR260, 460, & 461
		<b>TECHNICAL ELECTIVE (min. 13 cr &amp; 4-13 max. (2) 200-level)</b>
		Robotics & Automation Conc: EGRS215, EGRS305, EGRS385, EGRS430, EGRS435
		General Technical Electives: CSCI265, CSCI281 or ↑, EGEE310 or ↑, EGME225 or ↑, EGEM320, EGNR261, EGRS235, EGRS325, EGRS372, EGRS375, EGRS460 or ↑, MATH215 or ↑
<b>APPROX. BAY COLLEGE CREDITS 72-76</b>		<b>MIN. LSSU CREDITS 48-63</b>
		<b>TOTAL CREDITS Min. 124</b>

Note: Students will earn Bay's A.S. Pre-Engineering upon successful completion of the courses listed in blue. Consult with a Bay advisor.

Any student completing the AS Pre-Engineering degree at Bay College is guaranteed admission into the BS Computer Engineering program at LSSU.

B.S. Note: 30 credits from Mathematics and Natural Sciences is required.

Consultation with an advisor is recommended. ENGR101 will be waived for transfer students.

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