Lake Superior State University—Articulation Agreement

Bay de Noc Community College

Transfer Major: Bachelor of Science-Electrical Engineering

Contacts:
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Valid: Fall 2023-2026

Bay College Courses			LSSU Equivalency			Additional LSSU Courses		
Michigan Transfer Agreement (MTA)			**STUDENTS EARN MTA AT BAY COLLEGE**			**REQUIREMENTS**		
ENGL101	Rhetoric and Composition	3	ENGL110	First-Year Composition I	3	EGEE250	Microcontroller Fund.	4
XXXXxxx	Communication Elective	3	XXXXxxx	Communications Elective	3	EGEE280	Introductory Signal Proc.	4
MATH141	Analytical Geo & Calc I	5	MATH151	Calculus I	4+1	EGEE310	Network Analysis	4
CHEM110	General Chemistry	5	CHEM115	General Chemistry	5	EGEE330	Electro-Mechanical Sys.	4
PHYS205	Engineering Physics I	5	PHYS231	App Phy Engineer Scientist I	4+1	EGEE345	Fund. Of Engineering Elec.	3
XXXXxxx	Social & Behavioral Science	6	XXXXxxx	Social & Behavioral Science	6	EGEE370	Electronic Devices	4
XXXXxxx	Humanities	6	XXXXxxx	Humanities	6	EGEE475	Power Electronics	4
						EGNR101	Waived for transfer students	
REQUIREMENTS			**REQUIREMENTS**			EGNR140	Linear Alg / Num Methods	2
CHEM110	From above MTA		CHEM115	From above MTA		EGNR265	C Programming	3
ELEC130	Circuit Fundamentals	4	EGEE210	Circuit Analysis	4	EGNR340	Num Methods for Engineers	1
ELEC170	Digital Fundamentals	4	EGEE125	Digital Fundamentals	4	EGNR346	Probability & Stats Lab	1
MATH141	From above MTA		MATH151	From above MTA		EGRS460	Control Systems	4
MATH142	Analytical Geo & Calc II	5	MATH152	Calculus II	4+1	MATH308	Probability & Math Stats	3
MATH243	Analytical Geo & Calc III	5	MATH251	Calculus III	4+1			
MATH244	Differential Equations	3	MATH310	Differential Equations	3	**SENIOR YEAR EXPERIENCE (Select 1)**		6-10
PHYS205	From above MTA		PHYS231	From above MTA		Industrial: EGNR491 & 495		
PHYS206	Engineering Physics II	5	PHYS232	App Phy Engineer Scientist II	4+1	Cooperative: EGNR250, 450, 451, & 491		
PHYS260	Statics	3	EGEM220	Statics	3	Research: EGNR260, 460, & 461		
TECHNICAL ELECTIVE (min. 13 cr & max. (2) 200-level from Bay and/or LSSU)		0-10	**TECHNICAL ELECTIVES (min. 13 cr & max. (2) 200-level from Bay and/or LSSU)**		0-10	**TECHNICAL ELECTIVE (min. 13 cr & max. (2) 200-level)**		3-13
ELEC290	Intro to Prog. Logic Control (4 cr)		EGRS365	Program Logic Contr (3+1 cr)		CSCI265, EGEE320 or ↑, EGME225 or ↑, EGNR261, EGRS215, EGRS235, EGRS305, EGRS325, EGRS372, EGRS375, EGRS461, MATH215 or ↑, or courses listed in concentrations below:		
MATH250	Linear Algebra (3 cr)		MATH305	Linear Algebra (3 cr)				
PHYS261	Dynamics (3 cr)		EGEM320	Dynamics (3 cr)				
ELECTIVES (to reach min. 124 cr)			**ELECTIVES** (to reach min. 124 cr)			**Robotics & Automation Concentration** EGRS385, EGRS430, & EGRS435		
						Digital Systems Concentration EGEE320, EGEE355, & EGEE425		
APPROX. BAY COLLEGE CREDITS		62-72				**LSSU CREDITS**		50-69
						TOTAL CREDITS		Min. 124

Note: Students will earn Bay's A.S. Pre-Engineering upon successful completion of the courses listed in blue. Consult with a Bay advisor.
B.S. Note: 30 credits from Mathematics and Natural Sciences is required.

Consultation with an advisor is recommended. EGNR101 will be waived for transfer students.
Courses may be offered alternating years: EGEE310, EGEE320, EGEE330, EGEE345, EGEE355, EGEE425, EGEE475

Mindy McCready 9/11/2023
Ms. Mindy McCready (Date)
LSSU Interim Dean of the College of Innovation and Solutions

Kimberly Muller 9/12/23
Dr. Kimberly Muller (Date)
LSSU Interim Provost & VP of Academic Affairs

9/18/23
Dr. Jessica Van Slooten (Date)
Bay College Dean of Arts & Sciences

9/18/23
Dr. Amy Reddinger (Date)
VP Arts & Sciences & DEB