

Lake Superior State University—Articulation Agreement

Bay de Noc Community College

Transfer Major: Bachelor of Science-Robotics Engineering

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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	EGME141 Solid Modeling 3
XXXXxxx Communication Elective 3	XXXXxxx Communications Elective 3	EGNR101 Intro to Engineering 2
MATH141 Analytical Geo & Calc I 5	MATH151 Calculus 1 4+(1**)	EGNR140 Linear Alg / Num Methods 2
CHEM110 General Chemistry I 5	CHEM115 General Chemistry 5	EGNR340 Num Methods for Engineers 1
PHYS205 Engineering Physics I 5	PHYS231 App Phy Engineer Scientist I 4+(1**)	EGRS105 Robotics Apps & Trends 1
XXXXxxx Social & Behav. Science 6	XXXXxxx Social & Behav. Science 6	EGRS305 Robotics Safety & Collab. 3
XXXXxxx Humanities 6	XXXXxxx Humanities 6	EGRS372 Mobile Robotics 4
REQUIREMENTS	REQUIREMENTS	EGRS385 Robotics Engineering 4
CSCI120 Principles of Programming 4	EGNR265 C Programming 3+1	EGRS430 Sys Integ. & Machine Vision 4
ELEC130 Circuit Fundamentals I 4	EGEE210 Circuit Analysis 4	EGRS435 Automated Mfg Systems 3
ELEC170 Digital I Fundamentals 4	EGEE125 Digital Fundamentals 4	EGRS460 Control Systems 4
ELEC240 Real Time Robotics Sys 4	EGRS215 Intro to Robotics 2+(2**)	MATH308 Prob & Math Statistics 3
ELEC290 Intro Programmable Logic 4	EGRS365 Program. Logic Control. 3+(1**)	SENIOR YEAR EXPERIENCE (Select 1) 6-13
MATH142 Analytical Geo & Calc II 5	MATH152 Calculus II 4+(1**)	Industrial: EGNR491 & 495
MATH243 Analytical Geo & Calc III 5	MATH251 Calculus III 4+(1*)	Cooperative: EGNR250, 450, 451, & 491
MATH244 Differential Equations 3	MATH310 Differential Equations 3	Research: EGNR260, 460, & 461
PHYS206 Engineering Physics II 5	PHYS232 App Phy Engineer Scientist II 4+(1**)	
PHYS260 Statics 3	EGEM220 Statics 3	ELECTIVES (to reach min. 124 cr) 0-5
ELECTIVES (to reach min. 124 cr) 0-5	ELECTIVES (to reach min. 124 cr) 0-5	TECHNICAL ELECTIVE (min. 6 credits) 0-6
	**Additional Credits applied to free electives	CSCI281 or ↑; EGEE250 or ↑; EGEM320;
TECHNICAL ELECTIVE (min 6 credits) 0-6	TECHNICAL ELECTIVE (min. 6 credits) 0-6	EGET310; EGME225 or ↑; EGMT216;
Students must have six technical electives for degree. If taken at Bay College, these courses must transfer to LSSU as described in "Additional LSSU Courses" column. Suggestions on back.		EGNR261 or ↑; or EGRS461
SUPPORT ELECTIVE (min. 3 credits) 0-2	SUPPORT ELECTIVE (min. 3 credits) 0-2	SUPPORT ELECTIVE (min. 3 credits) 0-2
Students must have three support electives for degree. If taken at Bay College, these courses must transfer to LSSU as described in "Additional LSSU Courses" column. Suggestions on back.	*Additional credit above for Calculus 3 counts as a support elective.	BUSN231 or ↑; CSCI201 or ↑; ECON302 or ↑;
		EGME110; MATH215 or ↑; MGMT280 or ↑;
		or additional Technical Electives
TOTAL BAY COLLEGE CREDITS 73-86		MIN. LSSU CREDITS 38-51
		TOTAL CREDITS Min. 124

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

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

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

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Transfer Major: Bachelor of Science-Robotics Engineering, Page 2

Bay College Courses	LSSU Equivalency	Additional LSSU Courses
NOTES FROM PAGE 1:		
<p>TECHNICAL ELECTIVE (min. 6 credits) 0-6 Students must have six technical electives for degree. If taken at Bay College, these courses must transfer to LSSU as described in "Additional LSSU Courses" column. Suggestions:</p> <p>CNSS220 Network Design AND 4 CNSS225 Wireless Systems 4 CNSS231 Advanced Linux 4 PHYS261 Dynamics 3</p> <p>SUPPORT ELECTIVE (min. 3 credits) 0-3 Students must have three support electives for degree. If taken at Bay College, these courses must transfer to LSSU as described in "Additional LSSU Courses" column. Suggestions:</p> <p>BUSN195 Business Communications 3 BUSN203 Management Info Systems 3 BUSN250 Business Law I 3 CIS140 Database Applications 3 CNSS130 Intro to Networks 4 CNSS220 Network Design 4 CNSS225 Wireless Systems 4 CNSS230 Intro to Unix Using Linux 4 CNSS245 SQL Server 4 CNSS260 Network Security 4 MATH250 Linear Algebra 3</p>	<p>TECHNICAL ELECTIVE (min. 6 credits) 0-6</p> <p>CSCI323 Routers and Switches 3+5 CSCI281 Intro to UNIX and Networking 3+1 EGEM320 Dynamics 3</p> <p>SUPPORT ELECTIVE (min. 3 credits) 0-3 *Additional credit above for Calculus 3 counts as a support elective.</p> <p>BUSN231 Business Communications 3 MGMT280 Intro Mgmt Info Systems 3 BUSN350 Business Law I 3 CSCI211 Database Applications 3 CSCI221 Computer Networks 3+1 CSCI277 Electives 4 CSCI277 Electives 4 CSCI277 Electives 4 CSCI277 Electives 4 CSCI263 Managing Comp Security 3+1 MATH305 Linear Algebra 3</p>	<p>TECHNICAL ELECTIVE (min. 6 credits) 0-6 CSCI281 or ↑; EGEE250 or ↑; EGEM320; EGET310; EGME225 or ↑; EGMT216; EGNR261 or ↑; or EGRS461</p> <p>SUPPORT ELECTIVE (min. 3 credits) 0-3 BUSN231 or ↑; CSCI201 or ↑; ECON302 or ↑; EGME110; MATH215 or ↑; MGMT280 or ↑; or additional Technical Electives</p>
<p>Note: Students will earn Bay's A.S. Pre-Engineering upon successful completion of the courses listed in blue. Consult with a Bay advisor.</p> <p>B.S. Note: 30 credits from Mathematics and Natural Sciences is required.</p>		

Transfer guides are for planning purposes only and are subject to change without notice.

Final responsibility for verifying all transfer information lies with the student; a transfer guide is not intended to be a contract with LSSU.

Sub/waiver forms will need to be written for Bay's CSCI121 to LSSU's EGNR265; EGNR101 will be waived for transfer students

Consultation with an advisor is recommended.

For more course to course equivalencies visit www.lssu.edu/equivalency