

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	EGNR140 Linear Alg / Num Methods 2
MATH141 Analytical Geo & Calc I 5	MATH151 Calculus I 4+(1**)	EGNR340 Num Methods for Engineers 1
CHEM110 General Chemistry I 5	CHEM115 General Chemistry 5	EGNR490 Special Topics in Eng 4
PHYS205 Engineering Physics I 5	PHYS231 Applied Physics I 4+(1**)	EGRS372 Mobile Robotics 4
XXXXxxx Social & Behavioral Science 6	XXXXxxx Social & Behavioral Science 6	EGRS385 Robotics Engineering 4
XXXXxxx Humanities 6	XXXXxxx Humanities 6	EGRS430 Systems Integration & Machine 4
		EGRS435 Automated Mfg Systems 3
REQUIREMENTS	REQUIREMENTS	EGRS460 Control Systems 4
CSCI121 C++ Programming 3	EGNR265 C Programming 3	MATH308 Prob & Math Statistics 3
ELEC130 Circuit Fundamentals I 4	EGEE210 Circuit Analysis 4	
ELEC170 Digital I Fundamentals 4	EGEE125 Digital Fundamentals 4	SENIOR YEAR EXPERIENCE (Select 1) 6-13
ELEC240 Real Time Robotics Systems 4	EGRS215 Intro to Robotics 2+(2**)	Industrial: EGNR491 & 495
ELEC290 Intro to Programmable Logic 4	EGRS365 Programmable Logic Control. 3+(1**)	Cooperative: EGNR250, 450, 451, & 491
MATH142 Analytical Geo & Calc II 5	MATH152 Calculus II 4+(1**)	Research: EGNR260, 460, & 461
MATH243 Analytical Geo & Calc III 5	MATH251 Calculus III 4+(1*)	
MATH244 Differential Equations 3	MATH310 Differential Equations 3	FREE ELECTIVES
PHYS206 Engineering Physics II 5	PHYS232 Applied Physics II 4+(1**)	Additional credits as required to equal
PHYS260 Statics 3	EGEM220 Statics 3	min. 124 overall credits for degree
FREE ELECTIVES	FREE ELECTIVES	
Additional credits as required to equal	Additional credits as required to equal	
min. 124 overall credits for degree	min. 124 overall credits for degree	
	**Additional Credits applied to free electives	
TECHNICAL ELECTIVE (min 6 credits) 0-6	TECHNICAL ELECTIVE (min. 6 credits) 0-6	TECHNICAL ELECTIVE (min. 6 credits) 0-6
Students must have six technical electives for		CSCI281 or ↑; EGEE250 or ↑; EGEM320;
degree. If taken at Bay College, these courses must		EGET310; EGME225 or ↑; EGMT218;
transfer to LSSU as described in "Additional LSSU		EGNR261 or ↑; or EGRS461
Courses" column. Suggestions on the back.		
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	*Additional credit above for Calculus 3 counts as a	BUSN231 or ↑; CSCI201 or ↑; ECON302 or ↑;
degree. If taken at Bay College, these courses must	support elective.	EGME110; MATH215 or ↑; MGMT280 or ↑;
transfer to LSSU as described in "Additional LSSU		or additional Technical Electives
Courses" column. Suggestions on the back.		
TOTAL BAY COLLEGE CREDITS 73-86		MIN. LSSU CREDITS 38-51
		TOTAL CREDITS Min. 124

Kimberly Muller 3-15-19
 Dr. Kimberly Muller (Date)
 LSSU Dean of the College of Innovation and Solutions

Lynn Gillette 3-15-19
 Dr. Lynn Gillette (Date)
 LSSU Provost & VP of Academic Affairs

Cindy Carter 3/18/19
 Cindy Carter (Date)
 Bay College Dean for Business & Technology

Matthew Barron 3-15-19
 Dr. Matthew Barron (Date)
 Bay College VP of Academic Affairs

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Bay College Courses	LSSU Equivalency	Additional LSSU Courses
NOTES FROM PAGE 1:		
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:	TECHNICAL ELECTIVE (min. 6 credits) 0-6	TECHNICAL ELECTIVE (min. 6 credits) 0-6 CSCI281 or ↑; EGEE250 or ↑; EGEM320; EGET310; EGME225 or ↑; EGMT216; EGNR261 or ↑; or EGRS461
CNSS220 Network Design AND 4 CNSS225 Wireless Systems 4 CNSS231 Advanced Linux 4 PHYS261 Dynamics 3	CSCI323 Routers and Switches 3+(5**) CSCI281 Intro to UNIX and Networking 3+(1**) EGEM320 Dynamics 3	
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:	SUPPORT ELECTIVE (min. 3 credits) 0-2 *Additional credit above for Calculus 3 counts as a support elective.	SUPPORT ELECTIVE (min. 3 credits) 0-2 BUSN231 or ↑; CSCI201 or ↑; ECON302 or ↑; EGME110; MATH215 or ↑; MGMT260 or ↑; or additional Technical Electives
BUSN195 Business Communications 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	BUSN231 Business Communications 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	

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