Lake Superior State University — Articulation Agreement

NORTHWESTERN MICHIGAN COLLEGE

Transfer Major:	NMC: Engineering Transfer Program + Michigan Transfer Agreement to LSSU: B.S. Computer Engineering (CE)	
Contacts:	Dr. James D Smith Engineering Faculty Northwestern Michigan College (231) 995-1270 or jsmith@nmc.edu Dr. Paul Weber, Chair School of Engineering and Technology Lake Superior State University (906) 635-2031 or pweber@lssu.edu	**Valid For: 2023-2027** Continuing with review and renewal every 4 years

NMC Courses		LSSU Equivalency		Additl. LSSU Courses for B.S. Degree	
CHM-150 (also L & R) General Chemistry I	5	CHEM-115 General Chemistry	5	CSCI-121 Principles of Programming	4
MTH-141 Calculus I	5	MATH-151 Calculus I	4+1	CSCI-201 Data Structures and Algorithms	4
MTH-142 Calculus II	5	MATH-152 Calculus II	4+1	CSCI-434 Operating System Concepts	3
MTH-241 Calculus III	5	MATH-251 Calculus III	4+1	or	or
MTH-251 Differential Equations	4	MATH-310 Differential Equations	3+1	EGEE-425 Digital Signal Processing	4
PHY-221 (also L&R) Prob & Prin. of Phys I	5	PHYS-231 Applied Physics I	4+1	EGEE-125 Digital Fundamentals	4
PHY-222 (also L&R) Prob & Prin. of Phys. II	5	PHYS-232 Applied Physics II	4+1	EGEE-211 Circuit Analysis Lab	1
				EGEE-250 Microcontroller Fundamentals	4
Sub-total	**34**	**Sub-total**	**34**	EGEE-280 Intro to Signal Processing	4
Recommended Electives (13 credits)				EGEE-320 Digital Design	4
EGR-101 Intro to Engineering	1	Waive EGNR-101 Intro to Engineering		EGEE-355 Microcontroller Systems	4
EGR-111 Intro to Computer Science	3	EGNR265 "C" Programming	3	EGEE-370 Electronic Devices	4
EGR-211 Electrical Circuits	3	EGEE-277 Tech Elective (Waive EGEE210 Circuit Analysis - lecture only)	3	EGEE-425 Digital Signal Processing	3
Courses listed below are useful but not reqd. for transfer to LSSU's CE Program	**13**	**Addl. Electives that can be transferred**	**6**	EGNR-140 Lin. Algebra/ Num. Methods	2
EGR-113 Engineering Graphics I	3	*EGME-141 Solid Modeling*	3	EGNR-340 Adv. Num. Method for Eng.	1
EGR-201 Statics	3	*EGEM-220 Statics*	3	EGNR-346 Prob and Stats Lab for Eng	1
EGR-202 Mechanics of Materials	3	*EGME-225 Mechanics of Materials*	3	EGNR-491 Engineering Design Project I	3
EGR-203 Dynamics	4	*EGEM-320 Dynamics*	3+1	EGNR-495 Engineering Design Project II	3
EGR-220 Engineering Practice I	2	*Technical Elective*	2	MATH-308 Probability and Statistics	3
EGR-221 Material Science	3	*EGME-275 Materials Engineering*	3		
EGR-232 Introductory Thermodynamics	3	*Technical Elective*	3	Technical Elective Credits	7
	15		21		
Additional Michigan Transfer Agreement (MTA) Courses Reqd. (min.)	**20**	**Gen. Ed. Requirements at LSSU - Met**	**20**		
* see attached MTA requirements sheet • 2 Courses in English Comp. • 1 Course in Mathematics • 2 Courses in Social Science/Grp 1 • 2 Courses in Humanities/Grp 1 • 2 Courses in Natural Science including one with a lab	8 Met 6 6 Met	MTA requirements can also be completed at LSSU		**Note:** *See 2.5-yr plan (or 2-yr plan based on year of entry) of study at LSSU attached.*	
TOTAL NMC CREDITS	**67-82**	**TOTAL LSSU TRANSFER CREDITS**	**66-81**	**Min. ADDL. LSSU CREDITS REQD.**	**59**

Course schedules and offerings throughout the year are subject to change without notice. Students are expected to work closely with advisors in planning out their academic schedules.

Any of the NMC courses listed above will transfer to LSSU with a grade of 'C-' (1.7) or better.

Any student completing the Engineering Transfer program at NMC is guaranteed admission into LSSU's B.S. Computer Eng. program

APPROVED BY:

Kimberly Muller   3/5/24

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