	Lake Superior	r Si	tate University — Ar	ticu	lation Agreement	
NORTHWESTERN MICHIGAN COLLEGE						
Ira	nsfer Major:	NIVIC	: ASE Pre-Engineering to	•	LSSU: B.S. Mechanical Engine	eering
Contacts:	Dr. James D Smith Engineering Faculty Northwestern Michigan C (231) 995-1270 or jsmith Dr. Paul Weber, Chair, S (906) 635-2031 or pweb	@nmo	c.edu .SSU		Valid For: 2023-2027 Continuing with review and renewal every 4 years	
NMC Courses			LSSU Equivalency		Additional LSSU Courses	
ENG 112 Engli Humanities (Ar MTH-141 Calct MTH-141 Calct MTH-241 Calct MTH-241 Calct MTH-251 Differ PHYS-221 (als: PHYS-222 (als: CHM-150 (also Social Science Sub-total Dii EGR-101 Intro EGR-111 Intro EGR-201 Static EGR-202 Mech EGR-203 Dyna EGR-203 Dyna EGR-211 Electr EGR-221 Mater EGR-221 Mater EGR-221 Mater EGR-210 Engin Sub-total Michigan Trans For MTA, Addi 1 Cours 1 Cours chang advisi Any of grade Any of	ulus I ulus II ulus III ulus III rential Equations o L&R) Prob & Prin of Phys I o L&R) Prob & Prin of Phys II L & R) General Chemistry I (One course) rected Electives (min. 25 cr) to Engineering to Computer Science neering Graphics I is nanics of Materials mics rial Science rical Circuits neering Practice I sfer Agreement (MTA) tional Courses Reqd 6 e in Social Science/Grp e in Humanities/Grp se schedules and offerings ge without notice. Students ors in planning out their act of the NMC courses listed as e of 'C-' (1.7) or better. student completing the Engle	are e adem bove ineeri	ENGL110 First Year Composition I ENGL111 First Year Composition II Humanities MATH-151 Calculus I MATH-152 Calculus II MATH-251 Calculus III MATH-310 Differential Equations PHYS-231 Applied Physics I PHYS-232 Applied Physics II CHEM-115 General Chemistry Social Science Sub-total EGNR-101 Intro to Engineering EGNR265 "C" Programming EGMT-141 Solid Modelling EGEM-220 Statics EGME-225 Mechanics of Materials EGEM-320 Dynamics + EGEM377 EGME-275 Engineering Materials EGEE-277 Tech Elective (Waive Circuit Analysis - lecture only) EGNR277 Tech Elective Sub-total General Ed. Requirements If MTA is not met, additional 6 credits will be required to complete MTA requirements	3 3 3 4 4 4 3 4 4 5 3 40 1 3 3 3 3 3 + 1 3 3 2 25 6	EGME-110 Manufacturing Processes EGNR-140 Linear Alg / Num Methods EGME-276 Strength of Materials Lab MATH-308 Probability and Statistics EGME-350 Machine Design EGEE-211 Circuit Analysis Lab EGNR-340 Num Methods for Engineers EGME-337 Thermodynamics EGME-338 Fluid Mechanics EGME-431 Heat Transfer EGME-432 Thermal Fluids Lab EGRS-460 Control Systems EGNR-491 Engineering Design Project II Sub-total SENIOR SEQUENCE (Select 1) Industrial: EGNR491 & 495 - 6 Co-op: EGNR450, 451, and 491 - 10 Research: EGNR260, 460, 461 - 8 TECHNICAL ELECTIVE (Select 1 area from below) Vehicle Systems (18-19 cr): EGE280, EGME425, & [EGME442 or EGRS461] Robotics & Automation (17-18 cr): EGRS365, EGRS385, EGRS430, EGRS435, & [3-4 cr Approved Tech Elective] General: 17 cr: Approved Tech Electives, min (2) 400-level; max (2) 200-level courses Approved Tech Electives: EGME 240, 310, 415, 425, 442; EGMT 216; EGNR 261, 361, 310, 346, 490; EGRS 305,325,372,375,385, 430,435,461	3 2 1 3 4 1 1 4 3 3 2 4 3 3 3 7 6 - 10
TOTAL NMC CI	REDITS	73-79	TOTAL Equivalent LSSU CREDITS	65-71	EGEE 280, 310, 330, 345, 411 ADDITIONAL LSSU CREDITS	60-66

APPROVED BY::

Kimberly Muller

3/5/24

Stephen N. Silliano

3/7/2024

Dr. Kimberly Muller Interim Provost and Vice President for Academic Affairs Lake Superior State University (Date)

Dr. Stephen N. Siciliano Vice President for Educational Services Northwestern Michigan College

(Date)

Updated: 10/31/23