Lake Superior State University — Articulation Agreement NORTHWESTERN MICHIGAN COLLEGE NMC: Engineering Transfer Program + Michigan Transfer Agreement **Transfer Major:** LSSU: B.S. Electrical Engineering (EE) Dr. James D Smith **Engineering Faculty** Northwestern Michigan College Contacts: Valid For: 2023-2027 (231) 995-1270 or ismith@nmc.edu Continuing with review and renewal Dr. Paul Weber, Chair every 4 years School of Engineering and Technology Lake Superior State University (906) 635-2031 or pweber@lssu.edu **NMC Courses** LSSU Equivalency Additl. LSSU Courses for B.S. Degree CHM-150 (also L & R) General Chemistry I CHEM-115 General Chemistry 5 EGEE-125 Digital Fundamentals MTH-141 Calculus I 5 MATH-151 Calculus I 4+1 EGEE-211 Circuit Analysis Lab 1 MTH-142 Calculus II 5 MATH-152 Calculus II 4+1 EGEE-250 Microcontroller Fundamentals 4 MTH-241 Calculus III EGEE-280 Intro to Signal Processing 5 MATH-251 Calculus III 4+1 4 MTH-251 Differential Equations MATH-310 Differential Equations 4 3+1 EGEE-310 Network Analysis 4 PHY-221 (also L&R) Prob & Prin. of Phys. I 5 PHYS-231 Applied Physics I 4+1 EGEE-330 Electro-Mechanical Systems 4 PHY-222 (also L&R) Prob & Prin. of Phys. II 5 PHYS-232 Applied Physics II 4+1 EGEE-345 Fund. Eng. Electromagnetics 3 EGEE-370 Electronic Devices 4 Sub-total 34 Sub-total 34 EGEE-475 Power Electronics 4 Recommended Electives (13 credits) EGNR-140 Lin. Algebra/ Num. Methods 2 EGR-101 Intro to Engineering Waive EGNR-101 Intro to Engineering EGNR-340 Adv. Num. Method for Eng. 1 EGR-111 Intro to Computer Science EGNR-265 C Programming 3 3 EGNR-346 Prob and Stats Lab for Eng 1 EGEE-277 Tech Elective (Waive EGNR-491 Engineering Design Project I 3 **EGR-211 Electrical Circuits** 3 3 EGEE210 Circuit Analysis - lecture only) EGR-201 Statics 3 EGEM-220 Statics 3 EGNR-495 Engineering Design Project II 3 Courses listed below are useful but not 13 Addl. Electives that can be transferred 9 EGRS-460 Control Systems 4 reqd. for transfer to LSSU's EE Program EGR-113 Engineering Graphics I 3 EGME-141 Solid Modeling 3 MATH-308 Probability and Statistics 3 EGR-202 Mechanics of Materials 3 EGME-225 Mechanics of Materials 3 EGR-203 Dynamics EGEM-320 Dynamics 4 3+1 EGR-220 Engineering Practice I 2 Technical Elective 2 EGME-275 Materials Engineering EGR-221 Material Science 3 3 EGR-232 Introductory Thermodynamics Technical Elective 3 Technical Elective Credits 7 15 21 **Additional Michigan Transfer Agreement** 20 Gen. Ed. Requirements at LSSU - Met 20 (MTA) Courses Reqd. (min.) * see attached MTA requirements sheet Note: See 2-yr (or 2.5-yr, depending on · 2 Courses in English Comp. 8 year of entry) plan of study at LSSU • 1 Course in Mathematics attached. Met MTA requirements can also be completed · 2 Courses in Social Science/Grp 1 6 at LSSU 2 Courses in Humanities/Grp 1 6 2 Courses in Natural Science Met including one with a lab **TOTAL NMC CREDITS** 67-82 **TOTAL LSSU TRANSFER CREDITS** 66-81 Min. ADDL. LSSU CREDITS REQD.

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. Electrical Eng. program

APPROVED BY:

Kimberly Muller

Dr. Kimberly Muller

Interim Provost and Vice President for Academic Affairs Lake Superior State University 3/5/24 (Date)

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

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(Date)