Lake Superior State University—Articulation Agreement

| Northwestern Michigan College | | | | | | | | | |
|-------------------------------|----------------------------------|---------------------------------|--------|-----------|--|--|--|--|--|
| | ransfer Major: | Bachelor of Science-Mathematics | | | | | | | |
| | Debra Pharo, Chair (231)995-1261 | | | | | | | | |
| | Science and Maths Departme | ent | | | | | | | |
| | Northwestern Michigan Colleg | ge | | | | | | | |
| | Brian Snyder, Chair, (906) 63 | 5-2658 | Valid: | 2019-2023 | | | | | |
| | School of Mathematics an | d Computer Science | | | | | | | |
| | Lake Superior State Universit | | | | | | | | |

| Northwestern Michigan College | | | | | | | | | |
|-------------------------------|-------------------------------|------------------|---------------------------|--|-------------------------|----------|---|-----|--|
| | Courses | LSSU Equivalency | | Additional LSSU Courses | | | | | |
| Michigan 1 | Fransfer Agreement (MTA) | General E | ducation Requirements Met | _ | | | | | |
| ENG111 | English Composition | 4 | | First-Year Composition I | 3 | l | | | |
| ENG112 | English Composition | 4 | | First-Year Composition II | 3 | | | | |
| MTH141 | Calculus I | 5 | MATH151 | | 4+1 | | | | |
| | Social & Behavior Science | 3 | | Social & Behavior Science | 3 | | | | |
| | Social & Behavior Science | 3 | | Social & Behavior Science | 3 | | | | |
| | Humanities | 3 | | Humanities | 3 | 1 | | | |
| | Humanities | 3 | | Humanities | 3 | | | | |
| PHYS221 | Natural Science w/Lab | 4+1 | PHYS231 | Natural Science w/Lab | 4+1 | | | | |
| | Natural Science | 4 | | Natural Science | 4 | | | | |
| DEPARTM | ENT REQUIREMENTS | DEPARTM | ENT REQUIREMENTS | | DEPARTMENT REQUIREMENTS | | | | |
| | | | | | | CSCI 105 | Intro to Computer Programming | 3 | |
| MTH 141 | Calculus I ^ | MTA | MATH 151 | Calculus I | 4+1 | CSCI 121 | Principles of Programming | 4 | |
| MTH 142 | Calculus II | | MATH 152 | | | MATH 215 | Fundamental Concepts of Mathematics | 3 | |
| MTH 241 | Calculus III | 5 | MATH 251 | Calculus III | 4+1 | MATH 216 | Discrete Mathematics and Problem Solving | 3 | |
| MTH 251 | Differential Equations | 4 | MATH 310 | Differential Equations | 3+1 | MATH 305 | Linear Algebra | 3 | |
| PHY 221 | P & P of Physics I ^ | МТА | | | | MATH 308 | Probability and Mathematical Statistics | 3 | |
| PHY 221L | P & P of Physics I Lab ^ | | | All 3 courses required | | MATH 309 | Applied Statistics | 4 | |
| PHY 221R | P & P of Physics Recitation / | \ | PHYS231 | Applied Physics for Scientists & Engineers 1 | | MATH 341 | Abstract Algebra I | 3 | |
| | | | | | | MATH 351 | Graph Theory | 3 | |
| | | | (LSSU agre | es to waive CSCI 103) | | MATH 401 | Mathematical Modeling | 3 | |
| | | | | | | MATH 411 | Advanced Topics in Calculus | 3 | |
| | | | | | | MATH 490 | Individualized Research Topics in Mathematics | 3 | |
| | | | | | | | One additional math course | 3 | |
| | Electives | 14 | | | | | LSSU Minor or Electives | 21 | |
| TOTAL NM | C CREDITS | 62 | | | | TOTAL AD | DITIONAL LSSU CREDITS | 62 | |
| | | | | | | TOTALCR | | 124 | |

APPROVED BY:

Provost & Vice President for Academic Affairs

Lake Superior State University

Dr. Marguerite Cotto

Vice President for Lifelong and Professional Learning

Northwestern Michigan College

Vice President for Educational Services Northwestern Michigan College

Students must have MTA certification from Northwestern Michigan College for agreement to be valid. Students should work with their community college transfer counselor to verify MTA requirements. ^Courses included in MTA.