

# Lake Superior State University—Articulation Agreement

## North Central Michigan College

Transfer Major: Bachelor of Science-Geology, Environmental Geology Concentration

|                  |   |               |                |
|------------------|---|---------------|----------------|
| <b>Contacts:</b> | Academic Advising<br>North Central Michigan College<br>advising@ncmich.edu<br>NCMC Admissions 888/298.6605  | <b>Valid:</b> | Fall 2025-2028 |
|                  | Heidi Rife, LSSU Regional Centers Director<br>Lake Superior State University<br>906/217.4123 or hrife@lssu.edu<br>LSSU Admissions 888/800.5778 x:2231 |               |                |

| NCMC Courses  | LSSU Equivalency   | Additional LSSU Courses   |
|---|--|---|
| <b>Michigan Transfer Agreement (MTA)</b>  | <b>STUDENTS EARN MTA AT NCMC</b>   |   |
| ENG111 English Composition I 3<br>XXXXXX Comm Elective 3<br>MATH130 College Algebra 4<br>CEM121 Principles of Chemistry 5<br>PHY210 General Physics I 5<br>XXXXXX Social Science 6<br>XXXXXX Humanities 6   | ENGL110 First-Year Composition I 3<br>XXXXXX Communication Elective 3<br>MATH111 College Algebra 3+1<br>CHEM115 General Chemistry I 5<br>PHYS221 Principles of Physics I 4+1<br>XXXXXX Social & Behavioral Science 6<br>XXXXXX Humanities 6  |   |
| <b>REQUIREMENTS</b>   | <b>REQUIREMENTS</b>  | <b>REQUIREMENTS</b>   |
| CEM121 (From above MTA)<br>CEM122 Principles of Chemistry II 5<br>ESC121 Physical Geology 4<br>GIS110 Intro to Geog Info Systems I 3<br>MATH130 (From above MTA)<br>MATH150 Analytic Geo & Calc I 5<br>or LSSU's MATH112<br>STAT200 Statistics 3<br>or LSSU's MATH308, BUSN211, or BIOL280<br>PHY210 (From above MTA)<br>or PHY230 Physics for Scientists & Eng I | CHEM115 (From above MTA)<br>CHEM116 General Chemistry II 5<br>GEOL121 Physical Geology 4<br>EVRN131 Intro to GIS 3<br>MATH111 (From above MTA)<br>MATH151 Calculus I 4+1<br>or MATH112 Calc for Bus & Life Sci<br>MATH207 Princ of Statistical Methods 3<br>or MATH308 or BUSN211 or BIOL280<br>PHYS221 (From above MTA)<br>or PHYS231 Applied Physics I | GEOL122 Earth History 4<br>GEOL223 Mineralogy & Petrology 4<br>GEOL308 Structural Geology Systems 4<br>GEOL315 Geoenvironmental Systems 4<br>GEOL322 Geochemical Systems 4<br>GEOL334 Hydrologic Systems 4<br>GEOL380 Intro to Field Geology 3<br>GEOL431 Geophysical Systems 4<br>GEOL440 Technology in Geology 2<br>GEOL450 Geology Seminar I 1<br>GEOL451 Geology Seminar II 1<br>GEOL480 Advanced Field Geology 3<br>EVRN199 (Waived for transfer students)<br>EVRN311 Environmental Law 3<br>EVRN341 Fate & Transport Env. 4<br>EVRN475 Climate: Past & Present 2<br>NSCI103 Environmental Science 3<br>NRES230 Intro to Soil Science 4<br>or EVRN211 Field Data Methods |
| <b>DISTRIBUTED ELECTIVES</b> 6<br><i>Min. 6 credits required from NCMC &amp;/or LSSU<br/>CEM231, CEM232, [ESC150 or GEO111],<br/>GIS120, ENVS265, or LSSU's course(s)<br/>or LSSU course(s)</i>   | <b>DISTRIBUTED ELECTIVES</b> 6<br><i>Min. 6 credits required from NCMC &amp;/or LSSU<br/>CHEM225, CHEM326, GEOG108,<br/>EVRN225, POLI342, or LSSU's CHEM208, 231,<br/>236, 332; ECON307; EVRN211, 315, 317, 325,<br/>365, 389, 435, 495; FIRE312; GEOL355, 490,<br/>495; MICR205, 315; NSCI116; NRES230</i>  |   |
| <b>ELECTIVES</b> 12   | <b>ELECTIVES</b> 12  |   |

*Elective courses are recommended to be taken at LSSU to maintain a full-time status after transferring.*

**Note:** Students will earn NCMC's Associate in Science upon successful completion of the courses listed in blue and an additional communication course. Consult with a NCMC advisor.

|                           |    |                      |          |
|---------------------------|----|----------------------|----------|
| <b>TOTAL NCMC CREDITS</b> | 70 | <b>LSSU CREDITS</b>  | 54       |
|                           |    | <b>TOTAL CREDITS</b> | Min. 124 |

Consultation with an advisor is recommended.

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|---|--------------|---|--------------|
| <i>Steven Johnson</i>   | Nov 19, 2025 | <i>Sara Glasgow</i>                                     | Nov 19, 2025 |
| <b>Dr. Steven Johnson</b><br>LSSU Dean for the College of Arts & Sciences | (Date)       | <b>Dr. Sara Glasgow</b><br>NCMC Dean of Arts & Sciences | (Date)       |
| <i>Kimberly Muller</i>  | 11/18/25     | <i>Stephen Strom</i>                                    | Dec 2, 2025  |
| <b>Dr. Kimberly Muller</b><br>LSSU Provost & VP for Academic Affairs      | (Date)       | <b>Dr. Stephen Strom</b><br>NCMC VP of Academic Affairs | (Date)       |