

Lake Superior State University—Articulation Agreement

North Central Michigan College

Transfer Major: Bachelor of Science-Geology, Water & Climate Concentration

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

NCMC Courses			LSSU Equivalency			Additional LSSU Courses		
Michigan Transfer Agreement (MTA)			STUDENTS EARN MTA AT NCMC					
ENG111	English Composition I	3	ENGL110	First-Year Composition I	3			
XXXxxx	Comm Elective	3	XXXXxxx	Communication Elective	3			
MATH130	College Algebra	4	MATH111	College Algebra	3+1			
CEM121	Principles of Chemistry	5	CHEM115	General Chemistry I	5			
PHY210	General Physics I	5	PHYS221	Principles of Physics I	4+1			
XXXXxxx	Social Science	6	XXXXxxx	Social & Behavioral Science	6			
XXXXxxx	Humanities	6	XXXXxxx	Humanities	6			
REQUIREMENTS			REQUIREMENTS			REQUIREMENTS		
CEM121	(From above MTA)		CHEM115	(From above MTA)		GEOL122	Earth History	4
GIS110	Intro to Geog Info Systems I	3	EVRN131	Intro to GIS	3	GEOL223	Mineralogy & Petrology	4
ESC121	Physical Geology	4	GEOL121	Physical Geology	4	GEOL308	Structural Geology Systems	4
ESC150	Weather & Climate	4	GEOG108	Meteorology & Climatology	4	GEOL315	Geoenvironmental Systems	4
MATH130	(From above MTA)		MATH111	(From above MTA)		GEOL322	Geochemical Systems	4
MATH150	Analytic Geo & Calc I	5	MATH151	Calculus I	4+1	GEOL334	Hydrologic Systems	4
	or LSSU's MATH112			or MATH112 Calc for Bus & Life Sci		GEOL380	Intro to Field Geology	3
STAT200	Statistics	3	MATH207	Princ of Statistical Methods	3	GEOL431	Geophysical Systems	4
	or LSSU's MATH308, BUSN211, or BIOL280			or MATH308 or BUSN211 or BIOL280		GEOL440	Technology in Geology	2
PHY210	(From above MTA)		PHYS221	(From above MTA)		GEOL450	Geology Seminar I	1
	or PHY230 Physics for Scientists & Eng I			or PHYS231 Applied Physics I		GEOL451	Geology Seminar II	1
Select 1 Course (4-5 cr)		5	Select 1 Course (4-5 cr)		5	EVRN199	(Waived for transfer students)	
CEM122	Principles of Chemistry II (5 cr)		CHEM116	General Chemistry II (5 cr)		EVRN389	Env. Research Methods	3
PHY211	General Physics II (5 cr)		PHYS222	Principles of Physics II (4+1 cr)		EVRN475	Climate: Past & Present	2
PHY231	Physics Scientists & Eng (5 cr)		PHYS232	App Ply Engineer Sci II (4+1 cr)		NSCI116	Intro to Oceanography	4
DISTRIBUTED ELECTIVES		3	DISTRIBUTED ELECTIVES		3	NRES286	Principles of Watersheds	3
Min. 10 credits required from NCMC &/or LSSU GIS120 or LSSU courses			Min. 10 credits required from NCMC &/or LSSU EVRN225 or LSSU courses			DISTRIBUTED ELECTIVES		
ELECTIVES		11	ELECTIVES		11	EVRN211, 311, 315, 325, 365, 341, 495 GEOL355, 480, 490, 495; NRES230, 284, 345; NSCI103		
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, an additional communication course, and approved electives to reach 60 credits. Consult with a NCMC advisor.								
TOTAL NCMC CREDITS			70			LSSU CREDITS		
						54		
						Min.		
						124		

Consultation with an advisor is recommended.

Steven Johnson

Nov 19, 2025

Dr. Steven Johnson

(Date)

LSSU Dean for the College of Arts & Sciences

Kimberly Muller

11/18/25

Dr. Kimberly Muller

(Date)

LSSU Provost & VP for Academic Affairs

Sara Glasgow

Sara Glasgow (Nov 18, 2025 09:52:58 EST)

Nov 19, 2025

Dr. Sara Glasgow

(Date)

NCMC Dean of Arts & Sciences

Stephen Strom

Dec 2, 2025

Dr. Stephen Strom

(Date)

NCMC VP of Academic Affairs