

# Lake Superior State University—Articulation Agreement

## North Central Michigan College

Transfer Major: Bachelor of Science-Cannabis Chemistry

<b>Contacts:</b>	Academic Advising North Central Michigan College advising@ncmich.edu NCMC Admissions 888/298.6605	<b>Valid:</b>	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		
<b>Michigan Transfer Agreement (MTA)</b>			<b>STUDENTS EARN MTA AT NCMC</b>					
ENG111	English Composition I	3	ENGL110	First-Year Composition I	3			
XXXXxxx	Communication Elective	3	XXXXxxx	Communication Elective	3			
MATH130	College Algebra	4	MATH111	College Algebra	3+1			
BIO151	General Biology I	4	BIOL131	General Biology: Cells	4			
CEM121	Principles of Chemistry I	5	CHEM115	General Chemistry I	5			
ECO111	Macroeconomics	3	ECON201	Princ of Macroeconomics	3			
	or ECO112 Microeconomics			or ECON202 Princ of Microeconomics				
XXXXxxx	Social Sciences	3	XXXXxxx	Social & Behavioral Science	3			
XXXXxxx	Humanities	6	XXXXxxx	Humanities	6			
<b>REQUIREMENTS</b>			<b>REQUIREMENTS</b>			<b>REQUIREMENTS</b>		
BIO151	(From above MTA)		BIOL131	(From above MTA)		CCHM120	Cannabis Chemistry I	1
BIO152	General Biology II	4	BIOL132	General Biology: Organisms	4	CCHM240	Cann Plant Sample Prep	2
BIO226	Microbiology	4	BIOL204	General Microbiology	4	CCHM245	Cannabis Chemistry II	1
CEM121	(From above MTA)		CHEM115	(From above MTA)		CCHM250	Cannabis Production	1
CEM122	Principles of Chemistry II	5	CHEM116	General Chemistry II	5	CCHM350	Cannabis Chemistry III	1
CEM231	Organic Chemistry	5	CHEM225	Organic Chemistry I	4+1	CCHM420	Cannabis Extract/Purifications	2
CEM232	Organic Chemistry II	5	CHEM326	Organic Chemistry II	4+1	CCHM440	Cannabis Separations Chem	4
ECO111	(From above MTA)		ECON201	(From above MTA)		CHEM231	Quantitative Analysis	4
	or ECO112 (From above MTA)			or ECON202 (From above MTA)		CHEM236	Chemistry of Soil	3
MATH130	(From above MTA)		MATH111	(From above MTA)			or BIOL235 Int to Protected Horticulture	
STAT200	Statistics	3	MATH207	Princ of Statistical Method	3	CHEM299	Chemistry Soph Seminar	1
<b>ELECTIVES</b> 27			<b>ELECTIVES</b> 27			CHEM332	Instrumental Analysis	4
<i>Electives are recommended to be taken at LSSU to maintain full-time enrollment after transferring.</i>						CHEM351	Intro Biochemistry	4
<div>Note: Students will earn NCMC's AS Concentration in Biology upon successful completion of the courses listed in blue, ENG112, and 2 credits of approved electives. Consult with a NCMC advisor.</div>						CHEM353	Medicinal Chemistry/Toxicology	3
						CHEM410	Molecular Spectroscopy	4
						<b>CHOOSE RESEARCH OR COURSE OPTION</b> 4		
						Research Option		
						CHEM395 Junior Seminar (1 cr)		
						CHEM49X Senior Research (2 cr)		
						CHEM499 Senior Seminar (1 cr)		
						Course Option		
						CHEM/CCHM 3XX or Higher (4 cr)		
<b>TOTAL NCMC CREDITS</b> 85						<b>LSSU CREDITS</b> 39		
						<b>Min.</b>		
						<b>TOTAL CREDITS</b> 124		

Consultation with an advisor is recommended.

*Steven Johnson*

Nov 19, 2025

**Dr. Steven Johnson**  
LSSU Dean for the College of Arts & Sciences

(Date)

*Kimberly Muller*

11/18/25

**Dr. Kimberly Muller**  
LSSU Provost & VP for Academic Affairs

(Date)

*Sara Glasgow*

Sara Glasgow (Dec 3, 2025 09:03:52 EST)

**Dr. Sara Glasgow**  
NCMC Dean of Arts & Sciences

Dec 3, 2025

(Date)

*Stephen Strom*

**Dr. Stephen Strom**  
NCMC VP of Academic Affairs

Dec 3, 2025

(Date)