

Lake Superior State University—Articulation Agreement

North Central Michigan College

Transfer Major: Bachelor of Science-Cannabis Chemistry

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			
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			
REQUIREMENTS			REQUIREMENTS			REQUIREMENTS		
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
ELECTIVES 27			ELECTIVES 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
						CHOOSE RESEARCH OR COURSE OPTION 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)		
TOTAL NCMC CREDITS 85						LSSU CREDITS 39		
						Min.		
						TOTAL CREDITS 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)