

# Lake Superior State University—Transfer Guide

## North Central Michigan College

**Transfer Major:** Bachelor of Science Degree Biology

<b>Contacts:</b>	Timothy Dykstra, Dean of Instruction North Central Michigan College (231) 348-6700 or (231) 348-6600	<b>Valid For:</b>	2003-2005 NCMC Catalog
	Greg Zimmerman, Chair, Biological Sciences Lake Superior State University (906) 635-2470 or Admissions 1-888-800-5778 x2231		2004-2006 LSSU Catalog

North Central Michigan College	LSSU Equivalency	LSSU Bachelor of Science Degree Biology
<b>MACRAO Certification</b> (General Education Requirements) 27  CIS 100 Intro Computers 3 MTH 119 College Algebra 3 STAT 200 Statistics 3 BIO 151 General Biology I 4 BIO 152 General Biology II 4 CEM 121 Prin Chemistry I 5 CEM 122 Prin Chemistry II 5 CEM 231 Organic Chemistry I 4 CEM 232 Organic Chemistry II 4	<b>MACRAO Certification</b> (General Education Requirements) 27  CS 101 Intro Microcomputer Apps 3 MA 111 College Algebra 3 MA 207 Prin of Statistical Methods 3 BL 131 General Biology I 4 BL 132 General Biology II 4 CH 115 General Chemistry I 5 CH 115 Gen Chem II (4) & CH Elec (1) 5 CH 225 Organic Chemistry I 4 CH 226 Organic Chemistry II 4	<b>Courses to Complete Degree:</b>  BL 220 Genetics 4 BL 280 Biometrics 3 BL 299 Sophomore Seminar 1 BL 337 General Ecology 3 BL 399 Junior Seminar * 1 BL 495 Senior Project 1-3 BL 499 Senior Seminar 1 Physiology (select one): 4 BL 315 Plant Physiology (4) or BL 330 Animal Physiology (4) or BL 421 Cell Biology (4) Taxonomy (select one): 3-4 BL 202 Field Botany (3) BL 204 General Microbiology (4) BL 310 Ichthyology (3) BL 311 Mammalogy (3) BL 312 Ornithology (3) BL 422 Parasitology (3) BL 475 Aquatic Entomology (3) Biology Electives ** 20 CH 451 Biochemistry 4 MA 112 Calculus for Bus/Life Science 4 Electives 14
TOTAL NCMC CREDITS 62	TOTAL LSSU TRANSFER 62	TOTAL LSSU CREDITS 63

APPROVED BY:

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 Timothy Dykstra, Dean of Instruction (Date)  
 North Central Michigan College

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 Greg Zimmerman, Chair, Biological Sciences (Date)  
 Lake Superior State University

Students must have MACRAO certification from North Central Michigan College for agreement to be valid. Students should work with their community college transfer counselor to verify MACRAO requirements.

\* CO 101 Speech Communication is a departmental prerequisite for BL 399; if a transfer student does not take NCMC's COM 111 as part of his/her general education, then he/she must take LSSU's CO 101 prior to taking BL 399.

\*\* A minimum of 12 hours must be from 300 or 400 level courses. At least one physiology, taxonomy, or biology elective must be at the 400 level.