

# Lake Superior State University—Transfer Guide

## Alpena Community College

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

**Contacts:**

Richard Sanderson, Transfer Coordinator  
Alpena Community College  
(989) 356-7265  
Greg Zimmerman, Chair, Biological Sciences  
Lake Superior State University  
(906) 635-2470 or Admissions 1-888-800-5778 x2231

**Valid For:**

2004-2005 ACC Catalog  
2004-2006 LSSU Catalog

Alpena Community College		LSSU Equivalency		LSSU Bachelor of Science Degree Biology	
<b>MACRAO Certification</b> (General Education Requirements)	25	<b>MACRAO Certification</b> (General Education Requirements)	25	<b>Courses to Complete Degree:</b>	
CEM 121 General & Inorganic Chemistry	4	CH 115 General Chemistry I	4	BL 131 General Biology I	4
CEM 122 Inorg Chem & Quant Analysis	4	CH 116 General Chemistry II	4	BL 199 Freshman Seminar	1
CEM 221 Organic Chemistry	4	CH 225 Organic Chemistry I	4	BL 220 Genetics	4
CEM 222 Organic Chemistry	4	CH 226 Organic Chemistry II	4	BL 280 Biometrics	3
BIO 210 Intro to Botany	4	BL 132 General Biology II	4	BL 299 Sophomore Seminar	1
BIO 211 General Zoology	4	BL Electives	4	BL 337 General Ecology	3
BIO 227 Microbiology	4	BL 223 Clin Micro (3) & BL Elec(1)	4	BL 399 Junior Seminar*	1
MTH 123 College Algebra/Analytical Trig	4	MA 111 College Alg (3) & MA 108 Trig Vectors for Physics (1)	4	BL 495 Senior Project	1-3
MTH 131 Analytical Geom & Calculus	5	MA 151 Calculus I (4) & MA Elec (1)	5	BL 499 Senior Seminar	1
PHY 221 Physics	5	PH 231 General Physics I	5	Select One:	4
PHY 222 Physics	5	PH 232 General Physics II	5	BL 315 Plant Physiology (4) or BL 330 Animal Physiology (4) or BL 421 Cell Biology (4)	
				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
				MA 112 Calculus for Bus & Life Sci	4
				MA 207 Prin of Statistical Methods	3
<b>TOTAL ACC CREDITS</b>	<b>72</b>	<b>TOTAL LSSU TRANSFER</b>	<b>72</b>	<b>TOTAL LSSU CREDITS</b>	<b>53</b>

APPROVED BY:

Steven Lewis, Math/Engineering/Comp Sci (Date)  
Alpena Community College

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

Students must have MACRAO certification from Alpena Community 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 ACC's SPE 121 Speech Communication, 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.