

Lake Superior State University—Transfer Guide

Alpena Community College

Transfer Major: Bachelor of Science Degree Environmental Science

Contacts:

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Valid For:

2004-2005 ACC Catalog
2004-2006 LSSU Catalog

**Alpena
Community College**

LSSU Equivalency

**LSSU Bachelor of Science
Degree Environmental
Science**

MACRAO Certification
(General Education Requirements)

25

CEM 121 General & Inorganic Chemistry 4
CEM 122 Inorg Chem & Quant Analysis 4
CEM 221 Organic Chemistry 4
CEM 222 Organic Chemistry 4
BIO 210 Intro to Botany 4
BIO 211 General Zoology 4
MTH 123 College Alg/Analytical Trig 4
MTH 131 Analytical Geom & Calculus 5
MTH 223 Statistical Methods 4
MTH 119 Intro to Computers 3
PHY 121 General College Physics 4
PHY 122 General College Physics 4

TOTAL ACC CREDITS 73

MACRAO Certification
(General Education Requirements)

25

CH 115 General Chemistry I 4
CH 116 General Chemistry II 4
CH 225 Organic Chemistry I 4
CH 226 Organic Chemistry II 4
BL 132 General Botany II 4
BL Electives 4
MA 111 Coll Alg (3) & MA 108 Trig (1) 4
MA 151 Calculus I (4) & MA Elec (1) 5
BA 211 Bus Stats (3) and MA Elect (1) 4
CS 101 Intro Microcomputer Apps 3
PH 221 Elements of Physics I 4
PH 222 Elements of Physics II 4

TOTAL LSSU TRANSFER 73

**Courses to Complete
Degree:**

BL 131 General Biology I 4
BL 230 Intro to Soils 4
BL 337 General Ecology 3
BL 204 General Microbiology 4
CH 231 Quantitative Analysis 4
CH 332 Instrumental Analysis 4
NS 103 Environmental Science 3
EV 311 Environmental Law 3
EV 313 Solid & Hazardous Waste 3
EV 341 Env Chemistry I: Water 4
CH 342 Env Chem II: Air/Solid Wastes 4
EV 395 Junior Seminar 1
EV 499 Senior Thesis 2
EV 425 Env Systems Analysis 3
GE 121 Physical/Historical Geology I 4
GE 411 Hydro Sys: Surf/Groundwater 4
Directed Electives* 3-4
MA 140 Precalculus Math (waived)

TOTAL LSSU CREDITS 57

APPROVED BY:

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

Barb Keller, Chair, Chemistry & Env 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.

* Directed Electives are listed in the LSSU Catalog.