

**LAWRENCE TECHNOLOGICAL UNIVERSITY ~ TRANSFER GUIDE**  
**NORTH CENTRAL MICHIGAN COLLEGE**

**Major:** **CHEMISTRY / ENVIRONMENTAL CHEMISTRY**

**Valid For:** **Lawrence Technological University 2008-2009 Catalog**  
**North Central Michigan College 2009-2010 Catalog**

North Central Michigan College	Lawrence Technological University
Courses Required	Equivalencies
Natural Sciences Courses	
CEM 121	CHM1213 UNIV CHEM 1 CHM1221 UNIV CHEM 1 LAB
PHY 230	PHY2413 UNIV PHYSICS 1 PHY2421 UNIV PHYSICS LAB 1
PHY 231	PHY2423 UNIV PHYSICS 2 PHY2431 UNIV PHYSICS LAB 2
Mathematics	
MTH 122	MCS1414 CALC 1
MTH 211	MCS1424 CALC 2
MTH 212	MCS2414 CALC 3
Communications	
ENG 111	COM1103 ENG COMP
B 207	COM2103 TECH & PROF COMM
Humanities	
Select Two Courses: <b>ART</b> 105, 106, <b>ENG</b> 130, 210, 213, 214, 215, 221, 222, 231, 232, 241, 242, 244, 250, 251, 252, <b>MUS</b> 120, <b>PHL</b> 101, <b>THF</b> 101	Humanities Courses 6 Credit Hours Required
Select Two Courses: <b>ANP</b> 110, <b>GEO</b> 121, <b>HST</b> 131, 132, 140, 205, 220, 221, 231, 232, 258, 270, <b>PHL</b> 101, 109, <b>PLS</b> 141, 200, 225, <b>PSY</b> 161, 210, 241, 261, 290, <b>REL</b> 100, 102, <b>SOC</b> 120, 171, 230, 271	Social Science Courses 6 Credit Hours Required
Select one additional course different from above selection: <b>ANP</b> 110, <b>GEO</b> 121, <b>HST</b> 131, 132, 140, 205, 220, 221, 231, 232, 258, 270, <b>PHL</b> 101, 109, <b>PLS</b> 141, 200, 225, <b>PSY</b> 161, 210, 241, 261, 290, <b>REL</b> 100, 102, <b>SOC</b> 120, 171, 230, 271	ONE ADDITIONAL SOCIAL SCIENCE COURSE
Additional Transferable Courses	
CEM 122	CHM1223 + 1232 UNIV CHEM 2 + LAB
CEM 231	CHM2313 ORGANIC CHEM 1
CEM 232	CHM2323 ORGANIC CHEM 2 CHM2332 ORGANIC CHEM 2 LAB
17 SEMESTER HOURS OF COLLEGE LEVEL COURSEWORK (CHEM MAJORS)	OPEN ELECTIVES (17 SEM HOURS)

ONLY)	
3 SEMESTER HOURS OF COLLEGE LEVEL COURSEWORK (ENVIRONMENTAL CHEM MAJORS ONLY)	OPEN ELECTIVES (3 SEM HOURS)

**PLEASE NOTE:**

- General Education requirements may be waived by one of the following methods:
  1. satisfying the MACRAO Agreement — transcript must be stamped “MACRAO Agreement Satisfied.”
  2. course by course transfer as indicated on this guide sheet.
  3. satisfactory completion of an articulation agreement where applicable.
- Transferring Architecture students are advised to submit a portfolio documenting their community college art and architecture coursework for placement purposes.
- This transfer guide sheet is valid for the catalog dates shown.
- A maximum of 60 semester hours of community college coursework may transfer.
- All classes on the guide must have a grade of “C”, or higher in order to transfer.
- We welcome and encourage you to contact an LTU Admissions Counselor early in your community college career to ensure maximum transfer of credit.
- Contact the Office of Admissions if you have questions or would like to schedule a campus tour or an appointment with an Admissions Counselor.

**THE FOLLOWING ARE PREREQUISITE COURSES AND DO NOT TRANSFER**

MTH 111 Beginning Algebra  
 MTH 113 Intermediate Algebra  
 MTH 119 College Algebra  
 MTH 120 College Trigonometry  
 CEM 101 General Chemistry

***Apprenticeship, trade, remedial, physical education, and basic study courses are not transferable.***

An evaluation of your current standing (under the LTU major of your choice) can be obtained by sending student copies of your transcripts to:

LTU Office of Admissions  
 21000 W. 10 Mile Rd.  
 Southfield, MI 48075  
 Phone (248)-204-3160  
 Fax (248) 204-2228

6/5/09 am