### LAWRENCE TECHNOLOGICAL UNIVERSITY ~ TRANSFER GUIDE
### ALPENA COMMUNITY COLLEGE

**Major:** COMPUTER SCIENCE

**Valid For:** Lawrence Technological University 2005-2007 Catalog
Alpena Community College 2007-2008 Catalog

<table>
<thead>
<tr>
<th>Alpena Community College</th>
<th>Lawrence Technological University</th>
<th>Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Courses Required</td>
<td>Equivalencies</td>
<td>1  2   3</td>
</tr>
<tr>
<td><strong>Natural Sciences Courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PHY 221 +</td>
<td>PHY2413 UNIV PHYSICS 1</td>
<td>X</td>
</tr>
<tr>
<td>PHY 222</td>
<td>PHY2423 UNIV PHYSICS 2</td>
<td></td>
</tr>
<tr>
<td>These courses must both be taken; they are not individually transferable.</td>
<td>PHY2431 UNIV PHYSICS LAB 2</td>
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</tr>
<tr>
<td>Select two courses and one must include a lab:</td>
<td>NSCXXX3 NATURAL SCIENCE ELECTIVE CREDIT (7 credit hours)</td>
<td>X X</td>
</tr>
<tr>
<td>BIO 114, 201, 203, 210, 211, 227, PHY 121, 124, PHS 113, CHEM 111, 112</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 131 +</td>
<td>MCS1414 CALC 1</td>
<td>X</td>
</tr>
<tr>
<td>MATH 132 +</td>
<td>MCS1424 CALC 2</td>
<td></td>
</tr>
<tr>
<td>MATH 231</td>
<td>MCS2414 CALC 3</td>
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</tr>
<tr>
<td>Courses are not individually transferable.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MATH 121 or 123</td>
<td>MCS1214 MATH ANAL I</td>
<td>X</td>
</tr>
<tr>
<td>MTH 131</td>
<td>MCS1224 MATH ANAL II</td>
<td>X</td>
</tr>
<tr>
<td>MTH 232</td>
<td>MCS 2423 DIFF EQUATIONS</td>
<td>X</td>
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<tr>
<td><strong>Communications</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENG 112 or 121</td>
<td>COM1103 ENG COMP</td>
<td>X X X</td>
</tr>
<tr>
<td>ENG 123</td>
<td>COM2103 TECH &amp; PROF COMM</td>
<td>X X X</td>
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<tr>
<td><strong>Humanities</strong></td>
<td></td>
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<tr>
<td>Select Two Courses:</td>
<td>Humanities Courses</td>
<td>X X X</td>
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<tr>
<td>ENG 203, 204, 205, 221, 222, 223, 224, 243, 244, HUM 241, 242, MUS 110</td>
<td>6 Credit Hours Required</td>
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<tr>
<td>Select Two Courses:</td>
<td>Social Science Courses</td>
<td>X X X</td>
</tr>
<tr>
<td>HST 121, 122, 221, 222, 224, 225, ANP 121, 239, GEO 126, PHL 225, 228, PLS 221, 222, 228, 230, SOC 123, PSY 101, 226, 241, 242</td>
<td>6 Credit Hours Required</td>
<td></td>
</tr>
<tr>
<td>Select one additional course in a discipline different from the above selection: HST 121, 122, 221, 222, 224, 225, ANP 121, 239, GEO 126, PHL 225, 228, PLS 221, 222, 228, 230, SOC 123, PSY 101, 226, 241, 242</td>
<td>ONE ADDITIONAL SOCIAL SCIENCE COURSE</td>
<td>X X X</td>
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</table>
Additional Transferable Courses

<table>
<thead>
<tr>
<th>21 SEMESTER HOURS OF COLLEGE LEVEL COURSEWORK</th>
<th>OPEN ELECTIVES (21 SEM HOURS)</th>
<th>X</th>
<th>X</th>
<th>X</th>
</tr>
</thead>
<tbody>
<tr>
<td>CIS 204</td>
<td>MCS 1514 COMP SCI 1</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

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 102 Beginning Algebra
MTH 113 Intermediate Algebra

*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

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