

**LAWRENCE TECHNOLOGICAL UNIVERSITY ~ TRANSFER GUIDE**  
**GRAND RAPIDS COMMUNITY COLLEGE**

**Major:** *Physics*  
**Valid For:** Lawrence Technological University 2011-2012 Catalog  
Grand Rapids Community College 2011-2013 Catalog

Grand Rapids Community College Courses	Lawrence Technological University Equivalencies
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Mathematics

MA 133	MCS1414 Calculus 1
MA 134	MCS1424 Calculus 2
MA 255	MCS2414 Calculus 3
MA 257	MCS2423 Differential Equations

Natural Sciences

CHM 130 + 131	CHM1213 University Chemistry 1 CHM1221 University Chemistry 1 Lab
CHM 140 + 141	CHM1223 University Chemistry 2 CHM1232 University Chemistry 2 Lab
PH 245	PHY2413 University Physics 1 PHY2421 University Physics 1 Lab
PH 246	PHY2423 University Physics 2 PHY2431 University Physics 2 Lab

Communications

EN 101 or 102	COM1103 English Composition
BA 102 or EN 249	COM2103 Tech & Prof Comm

Humanities

Select Two Courses: <b>AT</b> 105, 106, <b>EN</b> 233, 235, 237, 247, 252, 261, 262, 270, 271, 272, 275, 281, 282, <b>HU</b> 204, 205, 274, <b>MU</b> 235	Humanities Courses 6 Credit Hours Required
Select Two Courses: <b>AN</b> 201, 205, 210, 280, <b>GE</b> 132, 135, 140, 253, 281, <b>HS</b> 101, 102, 120, 121, 241, 242, 249, 250, 251, 260, 276, 281, 290, <b>PL</b> 201, 205, <b>PS</b> 110, 200, 201, 202, 215, <b>SO</b> 251, 254, 260, 265, 270, <b>PY</b> 201, 231, 260	Social Science Courses 6 Credit Hours Required
Select one additional course different from previous selection: <b>AN</b> 201, 205, 210, 280, <b>GE</b> 132, 135, 140, 253, 281, <b>HS</b> 101, 102, 120, 121, 241, 242, 249, 250, 251, 260, 276, 281, 290, <b>PL</b> 201, 205, <b>PS</b> 110, 200, 201, 202, 215, <b>SO</b> 251, 254, 260, 265, 270, <b>PY</b> 201, 231, 260	One Additional Social Science Course (3 Semester Hours)

### Additional Core Requirements

11 Semester Hours of College Level Coursework (P only)	General Electives (11 Semester Hours)
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**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.
- 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:**

- CM 100 Basic Chemistry
- MA 104 Elementary Algebra
- MA 107 Intermediate Algebra
- MA 110 College Algebra
- MA 108 Trigonometry
- PH 125 College Physics 1

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

***This agreement does not necessarily contain exact equivalencies and should not be used for current LTU students to plan transfer credit as a guest student.***

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) 204-3188

6/16/11 am