

# Lake Superior State University—Transfer Guide

## Grand Rapids Community College

**Transfer Major:** Bachelor of Science Degree Computer and Mathematical Sciences

**Contacts:**

Grand Rapids Community College  
( )  
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**Valid For:**

2004-2005 GRCC Catalog  
2004-2006 LSSU Catalog

### Grand Rapids Community College

### LSSU Equivalency

### LSSU Bachelor of Science Degree Computer and Mathematical Sciences

**MACRAO Certification** 33  
(General Education Requirements)

MA 133 Analytical Geometry/Calculus I 5  
MA 134 Analytical Geometry/Calculus II 5  
MA 245 Discrete Math Structure 4  
MA 255 Analytical Geometry/Calculus II Electives 4  
Electives 11

TOTAL GRCC CREDITS 62

**MACRAO Certification** 33  
(General Education Requirements)

MA 151 Calc I (4) & MA Elective (1) 5  
MA 152 Calc II (4) & MA Elective (1) 5  
MA 215 Fund Conc (3) & MA Elec (1) 4  
MA 251 Calculus III Electives 4  
Electives 11

TOTAL LSSU TRANSFER 62

**Courses to Complete BS Degree:**

CS 103 Survey of Computer Science 3  
CS 105 Intro Computer Programming 3  
CS 121 Principles of Programming 3  
CS 201 Data Structures & Algorithms 3  
CS 205 Comp Org & Architecture 3  
CS 211 Database Applications 3  
CS 221 Computer Networks 3  
CS 290 Independent Study Comp Sci 3  
CS 312 File & Database Management 3  
CS 321 Computer Graphics 3  
CS 333 Systems Programming 3  
CS 334 Operating Systems Concepts 3  
CS 418 Software Engineering 3  
CS 419 Senior Projects in CS 3  
or CS 428 CS Coop Education I and  
CS 429 CS Coop Education II (6)  
or CS 438 CS Res Project I and  
CS 439 CS Res Project II (6)  
MA 216 Discrete Math & Problem Solv 3  
MA 261 Intro Numerical Methods 3  
MA 305 Linear Algebra 3  
MA 309 Applied Statistics 4  
MA 351 Graph Theory 3  
Electives 4

TOTAL LSSU CREDITS 62

APPROVED BY:

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Grand Rapids Community College (Date)

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Thomas Boger, Chair, Math/Computer Science (Date)  
Lake Superior State University

Students must have MACRAO certification from Grand Rapids Community College for agreement to be valid. Students should work with their community college transfer counselor to verify MACRAO requirements.