

Inver Hills Community College  
and Metropolitan State University  
Transfer Agreement Regarding the Applied Mathematics Major at Metro State

This agreement has been entered into by Inver Hills Community College and Metropolitan State University for the benefit of students and prospective students at the two institutions. The purpose of the agreement is to ensure programs of high academic quality, to encourage student achievement, and to facilitate the transfer of course credits and a smooth transition from one related program to the other.

**Transfer Agreement**

Students may apply a maximum of 23 semester credits from the following Inver Hills Community College semester courses toward the major requirements for the Bachelor of Science in Applied Mathematics offered by Metropolitan State University:

Inver Hills Course	Metro State Equivalent
MATH 1133 Calculus I (5 cr)	Math 210 Calculus I (4 cr)-required
MATH 1134 Calculus II (5 cr)	Math 211 Calculus II (4 cr)-required
MATH 2219 Multivariable Calculus (5 cr)	Math 310 Multivariable Calculus (4 cr)-required
MATH 2221 Introduction to Linear Algebra (3 cr)	Math 315 Linear Algebra and Applications (4 cr)-required
MATH 2222 Introduction to Differential Equations (3 cr)	Math 350 Ordinary Differential Equations (4 cr)-elective
One of the following: CS 1112 Pascal Programming and Problem Solving (3 cr) CS 1114 Introduction to Programming in Visual Basic (3 cr) CS 1119 Computer Programming with C++ (4 cr) CS 1120 Introduction to Programming in C (3 cr) CS 1123 C++ Programming (2 cr) CS 1126 Java Programming (3 cr)	ICS 140 Programming Fundamentals (4 cr)-required

Students who complete the above 23 credits from the above Inver Hills classes will need to complete an additional 24 credits to fulfill all requirements for the Metro State applied mathematics major.

Students who complete the A.A. degree at Inver Hills Community College will fulfill Metro State's general education requirements. Students who do not complete the A.A. degree may apply Inver Hills courses toward Metro State's general education requirements. In addition to the remaining requirements for the major, students who wish to complete the B.S. in mathematics must also complete 8 semester credits in upper-division liberal studies courses. The 120 semester-credit total required for the B.S. must include at least 40 upper-division semester credits; and at least 30 semester credits applied to the degree must be completed at Metropolitan State University.

### Duration of Agreement

This agreement becomes effective beginning in the fall semester of 1998 and remains in effect until terminated by either party. It may be terminated or amended for succeeding academic years by either institution on or before June 30 of each year.

### Persons Responsible/Evaluation

The Dean of the College of Arts and Sciences at Metropolitan State University and the Dean of Mathematics, Science and Academic Technology at Inver Hills Community College will be responsible for implementing this articulation agreement. Each institution will conduct an outcomes assessment, and the people responsible will meet regularly to review the agreements.

