A. Course Description

Credits: 4

Prerequisites: MATH 115 College Algebra or placement at MATH 120 Precalculus on the mathematics assessment test offered by Placement Assessment Office.

Lab Hours/ Weeks: Corequisites: None

Lecture Hours/ Week :

MnTC Goals: Goal 04 - Mathematical/Logical Reasoning

This course is designed to prepare students for calculus. Topics include polynomial, rational, exponential, logarithmic, and trigonometric functions; the algebra of functions; multiple function representations; and an introduction to analytic geometry.

B. Course Effective Dates: 09/06/1999 - 05/04/2002 05/04/2002 - 08/14/2010 08/14/2010 - Present

C. Outline of Major Content Areas:

See Course Description for major content areas.

D. Learning Outcomes (General)

1. Demonstrate adequate comprehension and ability to analyze and compute mathematical problems at the prerequisite level of Calculus I.
2. Understand the algebra of functions, with in-depth knowledge of polynomial, rational, exponential, logarithmic, and trigonometric functions.

E. Learning Outcomes (MN Transfer Curriculum)

Goal 04 - Mathematical/Logical Reasoning
1. Apply higher-order problem-solving and/or modeling strategies.
2. Clearly express mathematical/logical ideas in writing.
3. Illustrate historical and contemporary applications of mathematical/logical systems.
4. Explain what constitutes a valid mathematical/logical argument(proof).

G. Special Information

Note: For information on math placement and assessment visit, www.metrostate.edu/placement-assessment. Students whose prerequisites are not identified by the system would contact the Math and Statistics Department for an override at MATH@metrostate.edu. First day attendance required except by instructor permission.