



**EFFECTIVE: SEPTEMBER 2004**  
**CURRICULUM GUIDELINES**

A. Division:

**M:** Course Objectives / Learning Outcomes



N: Course Content:

**Functions**

- Definition
- Graphing
- The quadratic function
- Combining functions
- Inverse functions

**Polynomial and Rational Functions**

- Division of polynomials
- The remainder theorem and factor theorem
- Zeros of polynomials
- Graphing polynomial functions
- Graphing rational functions

**Exponential and Logarithmic Functions**

- The exponential functions and their graphs
- The logarithmic functions and their graphs
- Properties of the logarithmic functions
- Exponential and logarithmic equations
- Applications

**The Trigonometric Functions**

- The trigonometric functions of angles and real numbers
- Trigonometric graphs
- Right triangle problems

**Analytic Trigonometry and Applications**

- Trigonometric identities
- Trigonometric equations
- The addition and subtraction formulas
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**P:** Textbooks and Materials to be Purchased by Students

Larson, Hostetler, Edwards: Precalculus Functions and Graphs, 2<sup>nd</sup> Edition, Houghton Mifflin.

A graphing calculator is also required.

**Q:** Means of Assessment

Evaluation will be carried out in accordance with Douglas College policy. The instructor will present a written course outline with specific evaluation criteria at the beginning of the semester. Evaluation will be based on some of the following:

1. Weekly quizzes {0 – 40% }
2. Tests {20 – 70% }
3. Assignments {0 – 15% }
4. Attendance {0 – 5% }
5. Class Participation {0 – 5% }
6. Final Examination {30% }

**R:** Prior Learning Assessment and Recognition: specify whether course is open for PLAR