

CURRICULUM GUIDELINES

A: Instructional Division

Date: June 8, 1990

New Course Revision

R: Faculty of Science & Technology

Division, Section(s) Revised: 333, 334, 335, 336
November 1990

Date:

Science Students E: 3
Semester Credits

C: Math 115 D: Precalculus for Non-Science Students
Subject and Course Number Descriptive Title

F: Calendar Description:

This is a one semester course for those students who wish to prepare for Math 125, the calculus course for business and social sciences students. The course includes exponential and logarithmic functions, sequences, elementary series and an introduction to probability. Applications are drawn from business and financial models.

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G: Allocation of Contact Hours to Types of Instruction/Learning Settings

H: Course Prerequisites

Primary Methods of Instructional Delivery

Math 10 or equivalent

Lecture

None

Courses for which this course is a prerequisite

Math 125 and Math 160

Number of Contact Hours per week/semester

4

Number of Weeks per Semester 14

K: Maximum Class Size

35

L: PLEASE INDICATE:

Non-Credit

College Credit: Non-Transfer

College Credit Transfer

Requested/granted (circle)

M: Course Objectives/Learning Outcomes

At the end of the course, the successful student should be able to:

find the domain and range of a given function
- sketch the graphs of linear, quadratic, absolute value, greatest integer, radical, factored polynomial, rational, exponential and logarithmic functions
- sketch the graphs of piecewise defined functions
- use translation and reflection techniques to sketch graphs
- find the vertex of a parabola given its quadratic function
- solve optimisation problems involving quadratic functions

- 11. Binomial Theorem
- 12. Sequences, Series and Summation Notation

- ~~13. Arithmetic and Geometric Sequences~~
- 14. Permutations and Combinations

- 15. Probability
- 16. Mathematics of Finance

Q: Methods of Instruction

P: Textbooks and Materials to be Purchased by Students

Gustafson, David and Hestenes, John. *College Algebra*. Boston: Brooks/Cole Publishing Company, 1998.

Q: Means of Assessment

Evaluation will be carried out in accordance with Douglas College

based on some of the following:

- 1. Weekly tests (0-40%)
- 2. Midterm tests (20-70%)
- 3. Assignments (0-15%)
- 4. Attendance (0-5%)
- 5. Participation (0-40%)
- 6. Final Examination

sections of a course with a common final examination will have the same weight given to that section.

Note: All examinations

None

[Signature]
(s)

Education Council/Curriculum Committee Representative

[Signature]
Course Designer

[Signature]
Faculty Dean

[Signature]
Registrar

[Signature]
Faculty