

Math 190 – Precalculus - Spring 2014

SYLLABUS

Professor: Eric Lehtonen
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Office: 2763
Office hours: MW 17:00-18:00
TR 12:00-13:00

Calculators: The TI-30.

Text: Precalculus: Blitzer 5th ed.

Grading: There will be 4 exams and one final exam. Please note the dates in the class schedule below.

Tests: 60%

Final 30%

Homework 10%

Homework: Homework will be assigned daily.

Attendance: Students not attending the first day of class will be automatically dropped. Students missing more than one week worth of classes, dating from when the student first enters the class will be dropped.

Any student with a documented disability who may need educational accommodation should notify the instructor or the Disabled Student Programs and Services (DSP&S) office as soon as possible.

COURSE/CATALOG DESCRIPTION:

This is a course intended for students who need a thorough foundation before attempting Calculus. Included will be the study of the real number system, exponential, logarithmic, and trigonometric functions, the complex numbers, theory of equations, and systems of equations.

MEASURABLE COURSE OBJECTIVES AND MINIMUM STANDARDS FOR GRADE OF "C":

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:

1. Demonstrate a solid knowledge of the general concepts of functions..
2. Demonstrate the ability to work with polynomial and rational functions in the complex number system.
3. Demonstrate a working knowledge of exponential and logarithmic functions.
4. Demonstrate knowledge in the formulation of analytic trigonometry.
5. demonstrate the ability to solve application problems involving trigonometry.
6. Demonstrate a strong foundation in the introduction to trigonometry.
7. Demonstrate skills in analytic geometry.
8. Demonstrate basic knowledge of sequences and series.

Student Learning Outcomes:

By the end of this course the successful student should be able to:

Compute the difference quotient of given function $f(x)$.
Solve triangles using appropriate trigonometric laws.
Solve application problems involving logarithmic or exponential functions
Find roots of polynomials of degree 3 or more
Apply function operations both algebraically and graphically.

Lecture And Test Schedule

Week 1

Jan 21 **Introduction** 1.1-1.2

Jan 23 1.3-1.4-1.5

Week 2

Jan 28 1.6-1.7-1.8

Jan 30 1.9,2.1

Week 3

Feb 4 2.2-2.3

Feb 6 2.4-2.5

Week 4

Feb 11 2.6-2.7

Feb 13 3.1-3.2

Week 5

Feb 18 **Test 1**

Feb 20 3.3-3.4

Week 6

Feb 25 Chap 4 Review.

Feb 27 5.1

Week 7

Mar 4 5.2-5.3

Mar 6 5.4-5.5

Week 8

Mar 11 6.1

Mar 13 **Test 2**

Week 9

Mar 18 7.4

Mar 20 9.1

Week 10

Mar 25 9.2,9.3

Mar 27 9.4

Week 11

Apr 1 Review

Apr 3 **Test 3**

Week 12

Apr 8 10.1-10.2

Apr 10 10.3

Week 13

Apr 15 10.4

Apr 17 10.5

Week 14

Apr 22 **Spring Break**

Apr 24 **Spring Break**

Week 15

Apr 29 10.6

May 1 Review

Week 16

May 6 **Test 4**

May 8 Review

Week 17

May 13 Review

May 15 **Final Exam**