

# Math 190 - Pre-calculus - Summer 2015

## SYLLABUS

Professor: Eric Lehtonen  
Phone: 355-6522  
e-mail: Eric.lehtonen@imperial.edu  
Office: 2763  
Office hours: M-TH 2:30-3:30

**Calculators: The TI-30 Calculator or equivalent is required for this class.**

**Text: Pre-calculus, Blitzer, 4<sup>th</sup> edition.**

### **Grading:**

Exams 90% There will be 3 Exams. Each exam may be cumulative. Please note the tentative test schedule in the lecture schedule.

Homework 10% There will be daily quizzes.

**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.**

## 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	Sections
June 24	1.1-1.5
June 25	1.6-1.9
June 26	2.1-2.3

## **Week 2**

June 29 2.6-2.7  
June 30 2.7-3.1(Skip 2.8)  
July 1 3.2-3.3  
July 2 **Test 1**

## **Week 3**

July 6 Chapter 4  
July 7 5.1-5.2  
July 8 5.3-5.4  
July 9 5.5-6.1

## **Week 4**

July 13 6.2-6.3  
July 14 6.4-6.5  
July 15 7.3  
July 16 **Test 2**

## **Week 5**

July 20 9.1-9.2  
July 21 9.3-9.4  
July 22 9.4  
July 23 10.1-10.2

## **Week 6**

July 27 10.3-10.4  
July 28 Review  
July 29  
July 30 **Test 3**