

Math 153-005 Precalculus 1, Winter 2007

Time : M~F 1:00~1:50  
Location : Bouillon 110  
Credit Hours: 5

Text : Precalculus, A problems-Oriented Approach, 6th edition, by David Cohen  
Instructor : Jae-Chun Kim  
Office : Bouillon 123  
Office Phone : 963-2268

Office Hours :  
MW : 12:10~12:50  
TTh : 9:00~10:50 or by appointment

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Course Description:

This is a foundation course that stresses algebraic and elementary function concepts and the manipulative skills essential to the study of calculus. Numerical, graphical, and algebraic approaches will be used to give students a better understanding of the mathematical concepts important in the study of calculus. This course incorporates graphing calculators throughout the term as they are excellent tools for visualizing mathematical concepts.

Course Objective:

At the completion of this course, all students are expected to be able to:

1. Define and recognize functions given numerical, graphical, or algebraic relationships
2. Identify domains and ranges of given functions
3. Work with functional notation
4. Apply the functional concepts of functional arithmetic, composition, and inverses
5. Translate among numeric, symbolic, graphical, and verbal representations of functions;
6. Work with a variety of "prototype functions
7. Analyze the effect of transformations on both the algebraic and graphical representations of functions
8. Locate and determine certain graphical features of functions

Course Requirements:

1. Attending all classes. If however, a student has to miss a class, it will be his/her responsibility to catch up on the material before the next class meeting.
2. Completing all homework problems.
3. Participating in all quizzes and tests. If a student misses a test because of illness, the instructor must be informed without delay. Only in such cases will there be a make-up test. Problems chosen for the tests will generally be of a similar difficulty level as the assigned homework problems. There will be no retest given

4. Participating in the comprehensive final examination.

**Instructional Method:**

Most sessions of the course are lectures and problem solving. The class will begin with discussing previously assigned homework problems followed by lectures over the day's subject. The time remaining will be used to answer and discuss questions.

**Course Outline**

This outline is tentative. There may be some changes depending on our performance and other situations.

Week 1~2 : Chapter 1

Week 3~4 : Chapter 2 and Test 1

Week 5~6 : Chapter 3

Week 7~8: Chapter 4 and Test 2

Week 9~10: Chapter 5

Final Exam : 3/11(Tuesday) 12:00~2:00

Grading Policy : 2 tests(200 pts), Homework/Quiz(200pts), Final(200pts)

93~ : A

90~92 : A-

87~89 : B+

83~86 : B

80~82 : B-

77~79 : C+

73~76 : C

70~72 : C-

67~69 : D+

63~66 : D

60~62 : D-

~59 : F

This syllabus is subject to modifications upon the decision of the instructor.