

Math 3283 - Foundations of Math

Spring 2010

COURSE INFORMATION

Location: MTH 217
Class Times: MWF 09:00-09:50
Instructor: Dr. Karl Frinkle
Office: MTH 112
Office Hours: MWF 10:00-10:50, TR 09:00-11:00, 12:00-12:30, MW 13:00-13:30,
or by appointment
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TEXT

Foundations of Mathematics: An Introduction to Mathematical Reasoning, an unpublished text written by the Charles Matthews

COURSE OVERVIEW The *main objective* of this course is to learn how to read and write mathematics and mathematical proofs, and why this is important. To learn what mathematics is really about.

In addition to the main objective given above, here are some other more specific objectives for this course.

1. To demonstrate a comprehension of fundamental mathematical concepts and theorems.
2. To apply mathematical concepts to "real world" problems.
3. To understand the role of axiomatic systems and proofs in different branches of mathematics, like algebra and geometry.
4. To manifest logical reasoning abilities in the synthesis of proofs involving mathematical concepts.
5. To manifest both oral and written communication skills in the presentation of mathematical topics.
6. To work independently and with persistence in analyzing and solving problems in mathematics.
7. To show interpersonal skills that will promote the accomplishment of team goals in small groups.
8. To apply concepts of number systems and number theory.

POLICIES

Absence from class will not excuse missed work, so you are encouraged to get to know your classmates. If you do miss class, call them (or of course you can call me) and find out what you missed and what work you need to make up.

Cheating will not be tolerated in any shape or form. If you are caught cheating, it will be reported to the appropriate academic offices, and appropriate action will be pursued.

All cell phones, pagers, CD/MP3 players, laptops, calculators and other such devices must be turned off and put away before class begins. It is also expected that everyone will behave in a kind and courteous manner towards fellow students and the instructor.

If you are caught using a cell phone or any other electronic device during class, your final grade will be dropped by **one letter grade per incident**.

I reserve the right to change any policies as I see fit to ensure that you are indeed receiving the best possible education that I can give you in the subject matter at hand. If I feel a certain aspect of the course does not appear to be effective in its method, I will attempt to change it (for the better I hope).

GRADES

There will be 3 regular exams worth 100 points each. Homework will be worth 100 points. There will be a comprehensive final exam worth 100 points. This makes a total of 500 points. All homework problems from the textbook will be assigned, but the homework grade will be calculated as a percentage out of 90% of the problems.

The course grade will be determined by the total percentage:

Grade	%-age
A	90-100%
B	80-90%
C	70-80%
D	60-70%
F	0-60%

IMPORTANT DATES FOR SPRING 2010

- 2010.01.13 - Classes begin
- 2010.01.20 - Last day to add a class
- 2010.01.20 - Last day to drop a class with no grade record
- 2010.01.20 - Last day to drop a class with refund/no charges
- 2010.03.03 - Mid-Level Assessment Day
- 2010.03.12 - Last day to drop a class with automatic W
- 2010.04.01 - Last day to apply for graduation
- 2010.04.16 - Last day to drop a class
- 2010.05.14 - Classes end

SPECIAL ACCOMMODATIONS

Any student needing special accommodations due to a disability should contact the Coordinator of Student Disability Services, Student Union, Suite 204 or call (580) 745-2254 (TDD# 745-2704). It is the responsibility of each student to make an official request to the Coordinator for accommodations.