

COURSE INFORMATION	Location:	MTH 115
	Class Times:	TR 08:00 – 09:15
	Instructor:	Dr. Karl Frinkle
	Office:	MTH 112
	Office Hours:	MWF 10:00 – 12:00, TR 12:30 – 14:00, or by appointment
	Office Phone:	(580)745 – 2028
	E-mail:	kfrinkle@se.edu
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TEXT *Foundations of Mathematics: An Introduction to Mathematical Reasoning*, an unpublished text written by the Charles Matthews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 understand the role of axiomatic systems and proofs in different branches of mathematics, like algebra and geometry.
3. To manifest logical reasoning abilities in the synthesis of proofs involving mathematical concepts.
4. To manifest both oral and written communication skills in the presentation of mathematical topics.
5. To work independently and with persistence in analyzing and solving problems in mathematics.
6. To show interpersonal skills that will promote the accomplishment of team goals in small groups.
7. To apply concepts of number systems and number theory.

COURSE OUTLINE We will cover most, if not all, of the topics from chapters 1 through 4.

POLICIES You will not be able to make up a quiz or test or receive credit for any other assignment which you missed the deadline for unless you notify me ahead of time. If you are going to miss a class, please let me know ahead of time, and I will ensure that you can take a quiz early, or make it up afterwards if one is to be given that day. The same goes for homework and projects.

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).

**COURSE WORK** Each week, we will cover a section from the text. By the end of the week, it is expected that you will have become comfortable enough with the material to present problems on the board to your peers. At the beginning of the following week, you will be asked to hand in homework problems from the previous week's section. Homework, both written and in-class, count for 50% of your grade.

There is one mid-semester exam, which will be on Thursday, February 23rd, and will count worth 20% of your grade. There will also be a cumulative final exam, which will count for 20% of your final grade, and will be on Tuesday, May 8th, from 8:00 to 10:00.

**GRADES** Your final grade will be based upon the following items

- 50% - Homework - to be handed in on a regular basis
- 20% - Midterm Exam - exam covering all of the material from the first four chapters
- 20% - Final Exam - exam covering all of the material from the semester
- 10% - Class Participation - interaction during class

**IMPORTANT DATES FOR SPRING 2012**

- 2012.01.11 - Classes begin
- 2012.01.18 - Last day to enroll in or add classes
- 2012.01.18 - Last day to drop a class with no grade record
- 2012.01.18 - Last day to drop a class with refund/no charges
- 2012.03.09 - Last day to drop a class with automatic W
- 2012.03.30 - Last day to complete final application for graduation
- 2012.04.18 - Last day to drop a class
- 2012.05.11 - 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 for accommodations to the Coordinator. For additional information, see the Americans with Disability Act on the Southeastern Online Learning website or <http://www.se.edu/ada/>