

COURSE INFORMATION	Location:	MTH 115
	Class Times:	TR 12:30-13:20
	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
	Office Phone:	(580) 745-2028
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TEXT There are no required texts for this course.

COURSE OVERVIEW **Review and Testing:** We will spend a significant portion of the course reviewing basic undergraduate mathematics in preparation for taking an informal version of the Graduate Record Exam (GRE) and the official version of the Educational Testing Service (ETS) Major Field Exam in Mathematics. Your performance on these exams will make up part of your grade in the course (see below).

**Research, Writing, and Presentation:** This is the major component of the course. You will be required to write a paper on some topic in mathematics. If there is a topic in mathematics that you find particularly interesting please let me know. If appropriate, I will let you choose a research topic in that area. Otherwise I will assign a topic for you. To decide on a topic, it is highly recommended that you browse all available libraries in the area as well as online sources for topics that are well documented. This is important. Availability of adequate reference material is crucial to the creation of a good research paper. Your paper should contain significant mathematical content, at least some of which is new to you. Your paper will be evaluated on depth and correctness of mathematical content and clarity of exposition.

The length of the paper should be at least 10 typed, double-spaced pages with one inch margins and 12 point font. You should read and study material on your topic from at least five sources, and at least two of these should be articles from undergraduate level journals.

You will also be required to give a 20-25 minute presentation on your research project using at least one visual aid, such as an overhead projector, power point, etc. Your presentation will be open to the public and your audience will likely include several members of the mathematics faculty. It will be evaluated on the basis of effective use of visual aids, delivery, clarity of presentation, and level of mathematical content.

**Professional Preparation:** You are encouraged to take advantage of the services provided by the Placement Office. In addition, you will be required to create and submit a resume for yourself.

**Exit Interview and Survey:** Before you can graduate, you must schedule and complete an exit interview with Dr. Linda Kallum. You will also be asked to complete an exit survey.

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

The following is a breakdown of how you will be graded over the course of the semester.

Attendance/Class participation	15 points (see 1 below)
GRE	10 points (see 2 below)
ETS Major Field Test	20 points (see 3 below)
Research paper	
outline	5 points
first draft	5 points
final draft	15 points
Oral presentation	20 points
Resume	10 points
<hr/> Total	<hr/> 100 points

1. *Attendance and Participation (15 points)*: You will receive 1/2 point for each day you are present for a total of 15 points.
2. *Unofficial Version of the GRE (10 points + bonus)*: The number of points accumulated for this part of the course is  $20T$ , where  $T$  is the percentage score on the GRE. Thus a score of 50% would receive full credit of  $20(0.50) = 10$  points. Scores higher than 50% will earn bonus points. For example, a score of 60% would translate to  $20(0.60) = 12$  points. If you make less than 50% on the test, you may rework missed problems at 1/2 point each to raise your grade. No bonus points can be earned by this method. Bonus points apply only if your original score  $T > 50\%$ .
3. *ETS Major Field Test (20 points + bonus)*: The number of points accumulated for this part of the course is  $2P/5$ , where  $P$  is the national percentile ranking on the ETS exam. Thus a percentile ranking of 50 on the ETS will result in full credit of  $2(50)/5 = 20$  points.

#### 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.