

COURSE INFORMATION	Lecture Location:	MTH 217
	Lecture Times:	MWF 12:00 – 12:50
	Instructor:	Dr. Karl Frinkle
	Office:	MTH 112
	Office Hours:	MWF 9:00 – 9:50, 11:00 – 11:50, MW 15:30 – 16:30, TR by appointment only
	Office Phone:	(580) 745 – 2028
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TEXT *Calculus and its Applications* (10th edition), M. Bittinger, D. Ellenbogen, S. Surgent, ISBN # 9780321694331

COURSE OVERVIEW In this course, we will develop mathematical tools which are used widely and regularly in many areas of science and everyday life. Some of these areas include Business, Economics and the Social Sciences. We will discuss the many aspects of these mathematical concepts and how they are used in the aforementioned settings.

As a general education course, this course will satisfy the goal of the mathematical or quantitative reasoning component of general education: to develop the ability of students to understand and apply mathematical abstraction. As such, students will (1) solve problems using the principles of algebra or symbolic logic; (2) apply mathematical reasoning to analyze and interpret quantitative information; and (3) use and interpret mathematical formulas.

COURSE OUTLINE We will start out learning about differentiation, then delve into some applications of this topic. Next, we discuss the transcendental functions, their derivatives, and applications of this class of functions. The next topic we shall cover is integration, theory and application will be covered. Finally, we will extend some of what we have learned to functions of several variables. As a whole, we will cover chapters 1 through 6. You will be required to browse through chapter R on your own. If you find your knowledge of the material in chapter R lacking, you must learn it on your own time.

COURSE WORK You will be expected to read the material for each day's lecture in advance. **Reading quizzes** will be given each day at the beginning of class over this material. See the **schedule.pdf** document on the website for a breakdown on when we will cover specific sections. In addition to reading comprehension questions, there may be problems based on material we have already covered. Quizzes count for 20% of your final grade. There will be three (3) **exams** throughout the semester, each one preceded by a review day. Each exam will count for 15% of your final grade (for a grand total of 45%). A **cumulative final exam** will be given on December 8th from 14:00-16:00 and will be worth 30% of your final grade. The remaining 5% (for those of you keep track) is based upon **class participation**. Class participation encompasses: (a) attendance and (b) actively contributing to the class's overall learning experience on a regular basis. Homework problems for each section can be found on the **schedule.pdf** document. These problems are for your own edification and will not be collected. It is strongly suggested that you attempt most of the problems given for each section, and if you have questions, bring them up in class or stop by and see me during office hours.

GRADES Your final grade will be based upon the following items

- 20% - Reading/Problem Quizzes - given at the beginning of each class meeting
- 45% - Exams - three in-class exams throughout the semester
- 5% - Class Participation - attendance and class time contributions

- 30% - Final Exam - exam covering all of the material from the semester

POLICIES

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. 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**.

It is also expected that everyone will behave in a kind and courteous manner towards fellow students and the instructor.

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).

IMPORTANT DATES FOR FALL 2014

- 2014.08.18 - Classes begin
- 2014.08.22 - Last day to enroll in or add classes
- 2014.08.22 - Last day to drop a class with no grade record
- 2014.08.22 - Last day to drop a class with refund/no charges
- 2014.10.15 - Last day to drop a class with automatic W
- 2014.10.31 - Last day to complete final application for graduation
- 2014.11.14 - Last day to drop a class
- 2014.12.08 - Final Exam from 14:00-16:00
- 2014.12.12 - Classes end

SPECIAL ACCOMMODATIONS

Any student needing special accommodations due to a disability should contact the Coordinator for Disability Services, GDJ Student Union, Suite 328 or call (580) 745-2392 (TDD# 745-2704). It is the responsibility of each student to make an official request for accommodations to the Coordinator.

AT-RISK STUDENTS

Any student experiencing mental or emotional issues who desires free, confidential, clinical counseling is encouraged to contact the SE Counseling Center at (580) 745-2988 to schedule an appointment during normal working hours Monday - Friday, 8:00 AM to 5:00 PM. For after hours mental health emergencies, please call SE Campus Police at (580) 745-2911 or the Mental Health Crisis Hotline at 1-(800)-522-1090.