

COURSE INFORMATION      Location:            MTH 115  
                                 Class Times:        MWF 08:00-08:50  
                                 Instructor:         Dr. Karl Frinkle  
                                 Office:             MTH 208  
                                 Office Hours:      MTWRF 9:00-9:50, or by appt.  
                                 Office Phone:      (580) 745-2028  
                                 E-mail:            kfrinkle@sosu.edu  
                                 Website:            <http://www.sosu.edu/faculty/kfrinkle>

TEXT                      *Calculus Early Transcendentals* (5th Edition), by J. Stewart

COURSE OVERVIEW      The third semester of calculus takes calculus to higher dimensions. Starting with the three-dimensional coordinate plane, vector functions and other basic linear algebra topics, we will form the basis for the calculus of several variables. Partial differentiation, double and triple integrals and vector calculus are topics which we will cover in great detail.

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 cover most of the topics from chapters 12 through 16. Various topics may be omitted due to time constraints. However, we will try to cover as many topics as possible from these 5 chapters throughout the semester. If we have time at the end, we will attempt to take a quick look at chapter 17, which covers second-order differential equations.

POLICIES                Given the nature of this class, attendance is critical. Some of the material discussed in class will not come from the textbook. As a result, if you miss class, it will hurt your grade.

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.

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.

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.

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

Your final grade will be based upon the following items

- 35% - Quizzes - given randomly, without warning
- 35% - Hand-in Homework - about once a week, problems not from textbook
- 5% - Class participation - interaction during class
- 25% - Final Exam - exam covering all of the material from the semester

**Note 1:** Textbook homework will be assigned and posted online. I will only request the textbook homework to be handed in if I feel that the class, as a whole, is not doing the work. These problems are meant to help you understand the material, and will also help in preparation for quizzes and hand-in homework. Hand-in homework will usually involve more complicated problems which will require a reasonable understanding of the material over which it is based. A solid comprehension of the material we cover in class usually comes from doing many problems, which can be found in the textbook.

**Note 2:** All material from the course will be found on my website, NOT on BlackBoard.

## SPECIAL ACCOMMODATIONS

Any student needing special accommodations due to a physical, mental or learning disability should contact Mrs. Susan Dodson, the Coordinator for Student Disability Services, Hallie McKinney, Room 111B or call (580) 745-2394 (TDD# 745-2704). It is the responsibility of each student to make an official request to the Coordinator for Student Disability Services for all academic accommodations due to a disability. For copies of disability related policies, please contact Student Services (Administration Building, Room 205) or Student Support Services (Hallie McKinney, Room 111B).