

Math 223
Calculus III
Spring 2008, Section 1
CRN:28595
Kennedy 201
MWF 8:00-8:50

Instructor: Dr. Christopher Mouron

Office: 320 Ohlendorf Hall

Office Hours: MWF 11:00-12:00 AM, TTh 10:00-11:00 AM, or by appointment

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Text: *Calculus- Early transcendental functions*, by Larson, Hostetler and Edwards.

Course Description: Calculus has numerous applications in mathematics, physical science and engineering. This course covers the basic principles (both theory and applications) of differentiable multi-variable.

Course Content: The goal is to cover parametric equations, polar, cylindrical and spherical coordinates, vectors and vector operations, lines, planes and surfaces in space, limits, differentiation and integration of vector-valued functions and functions of several variables, directional derivatives and gradients, extrema of functions of more than one variable, vector fields and line integrals. These are the chapters 10-15 in the text.

Course Prerequisites: Calculus II with trigonometry, Math 122, or equivalent.

Attendance Policy: I will follow the College's attendance policy, which can be found on page 66 of the Catalogue. In particular, a student will be giving a warning after 4 absences and a written recommendation to the Dean that the student be dropped from the course will be made after 7 absences. In the case of a missed test, the student will be allowed to make-up the test only if both of the following conditions are satisfied:

- 1) I am contacted before the test is given (at least 1 week in the case of absence due to the attendance of an official school function.)
- 2) I am given proper documentation.

Finally, the student is responsible for all material and notes due to an absence. Get the notes from another student. Come to my office for any materials handed out in class.

Homework and Quizzes (12%): Mathematics is not a spectator sport. In order to learn the techniques and concepts, the student must work problems outside of class. The student is expected to spend at least 3 hours outside of class for every hour spent in class.

- 1) Practice exercises. These are problems that the student should do before the next class meeting. If a student has difficulty with an exercise, the student may ask me to do it in class (provided time allows) or in my office.
- 2) Graded exercises. These problems will be collected usually once a week. It is imperative that the work turned in is neat and organized. The student will be graded on correctness of the work. Also the student is required to show all work leading to an answer. The students may work together on these problems

but the work turned in must be the students own, i.e. no copying. Copying homework will be considered an honor violation and students suspected of copying homework will be referred to the Honor Council. Also, if student do work together on homework, they must document who they worked with.

- 3) Pop quizzes. If it is evident to the instructor that the students are not keeping up with the homework, a pop quiz may be given.

Also, the student is expected to “pre-read” the text before the lecture. This is a excellence way for the student to familiarize him/herself will the material covered and will aid the student in following the lectures.

Written Projects (10%): There will be 2 projects that will consist of longer, more involve applications of calculus. These projects must be typed and will be graded on correctness of the mathematics and written exposition. Rough drafts submission will be optional.

Late homework and projects will not be accepted. You will have plenty of time to complete assignments to turn in. If you are sick, have a roommate, classmate or friend turn in your homework for you. If they can get it to me before noon, it will be accepted. I f you plan to miss class for other reasons, turn in the homework early or have a classmate turn it in during class.

Tests (51%): There will be 3 tests throughout the semester. Unless otherwise notified, the test will be closed book and notes. The tentative test dates are:

- 1) February 8
- 2) March 14
- 3) April 18

Final Exam (27%): The final exam will be cumulative. Unless otherwise notified, the exam will be closed book and notes.

Grades: Grades will be earned for the following percentages:

<i>A</i>	Score \geq 93%	<i>C</i>	73% \leq Score $<$ 77%
<i>A-</i>	90% \leq Score $<$ 93%	<i>C-</i>	70% \leq Score $<$ 73%
<i>B+</i>	87% \leq Score $<$ 90%	<i>D+</i>	67% \leq Score $<$ 70%
<i>B</i>	83% \leq Score $<$ 87%	<i>D</i>	63% \leq Score $<$ 67%
<i>B-</i>	80% \leq Score $<$ 83%	<i>D-</i>	60% \leq Score $<$ 63%
<i>C+</i>	77% \leq Score $<$ 80%	<i>F</i>	Score $<$ 60%

Honor Code: The student is expected to conduct him or herself within the guidelines of the College’s Honor Code. If you have any questions about what is or not allowed, please ask.

If you have a documented disability and wish to receive academic accommodations, please contact myself and the Office of Student Disability Services as soon as possible.