Instructor: Dan Sievewright
E-mail: dsievewr@kzoo.edu
Office: 203 D Olds Upton
Office Hours: Monday, Wednesday: 3:00 - 4:00  Tuesday, Thursday, Friday: 2:00 - 3:00
If my office door is open and I am there, feel free to come in.

Text: *Calculus: Concepts and Contexts, fourth edition* by James Stewart

Contents and Goals: We will cover chapters 9-13 in our text. We start with an introduction to the geometry, algebra, and functions of vectors. We will then turn our attention to the techniques of differentiation and integration of real-valued (and vector-valued) functions.

The main goal of this course is to master this material (of course). But there are many other important goals that we will focus on along the way. Students will improve their mathematical reading and writing skills, critical thinking skills, and their ability to formulate and ask questions. In particular, there will be a bit more emphasis on proofs.

Evaluation:

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<th>Component</th>
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<td>Mastery Exams</td>
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<td>Homework</td>
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<td>20% Turn-ins</td>
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<td>Participation</td>
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<td>Midterms</td>
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<td>Final</td>
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Differentiation and Integration Mastery:
This is an opportunity to demonstrate your mastery of differentiation and integration. The only possible grades are 0% and 100%. You will print off an exam, do it without help (no book, notes, calculator, friends, etc.), and then discuss it with me. If help is needed, the MPC and I are available, but the final product you turn in must be your own work. If it’s perfect, you are done; if not you will print off a new exam and try again. There is virtually an unlimited number of tries, so attempt as early and as often as you can. The first attempt must be completed by Friday, 3 PM, week 1. The final attempt must be completed by Thursday, 3 PM, week 2.
Differentiation: http://max.cs.kzoo.edu/cgi-bin/calcgi/mastery1c1
Integration: http://max.cs.kzoo.edu/cgi-bin/calcgi/masteryc2_fall2003
**Homework:**
Homework will come in two parts: Warmups and Hand-ins. Warmups will consist of a handful of problems from the previous lecture and some reading. Our class sessions will often (almost always) begin with presentations of some of these problems and your participation score will partially be based on this. Volunteers will be chosen at random from the notecards you fill out on the first day of class. Having an incorrect or incomplete problem to present is perfectly acceptable as it presents an opportunity to learn. The problems are often odd-numbered so they can be checked in the back of the book and you can receive help from me, the Math-Physics Center, other students, etc.

It is asked that you do the warmups in a notebook to be turned in at exam time. They will be checked for completion and one must always show there work. A problem without any work (or some explanation of how the answer was obtained) will be counted as incomplete.

The hand-in problems will be collected at the beginning of the class period. You are encouraged to collaborate with other students, but you are expected to turn in individual assignments. **Late homework will not be accepted, but the two lowest scores will be dropped.**

**Participation:**
Students are expected to contribute to class discussions and work with partners or groups on classroom activities. From time to time, write-ups of classroom activities will be collected. Each student is expected to present at least two warmup problems at some time during the quarter. Due to the interactive component of this course, attendance at all class sessions is expected. Let me know if you plan on missing class for any reason and if you do miss a class, you should be sure to consult one of your colleagues to find out what you missed.

**Exams:**
There will be two midterm exams and one final exam. Our final exam is cumulative and will be scheduled for Tuesday, June 10 at 6:30 PM.

**Academic Dishonesty and Class Conduct:**
Representing another’s work as one’s own (i.e., copying) on homework or exams is not acceptable and will result in failure of the course. To promote an atmosphere of learning, I ask that all cell phones be turned off or put on silent to avoid distractions. This means no texting or other improper use of technology will be permitted.

**Special Accommodation:** Any student with a disability who needs an accommodation or other assistance in this course should make an appointment to speak with me as soon as possible.