Syllabus for Math 236, *Calculus II*, Spring 2016

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Office Hours: MWF 10:00am-11am, and by appointment.

COURSE GOALS: Math 236 continues Calculus I and gives a solid coverage of integral calculus, infinite sequences and series, and power series.

REQUIRED TEXT: *Calculus*, by Laura Taalman and Peter Kohn, Freeman, 2012.

CALCULATORS: For quizzes and exams, you may use a simple scientific calculator that is not programable and does not store formulas. You may use any calculator or computer to assist you in understanding the material and doing the homework.

GRADING: The grading will be assigned the following scale:
  A: 90-100%   B: 80-89%   C: 70-79%   D 60-69%   F: Below 60%

There will be no curves and no extra credit. I will assign +/- on an individual basis. WF's will not be assigned. Points are assigned as follows:
Quizzes (10) - 100 points   Midterm exams (3) - 100 points each   Homework - approximately 50 points   Final exam - 200 points

QUIZZES: There will be a 10 point quiz each Friday. This quiz will cover material through the previous class. Quiz questions will be similar (but certainly not limited) to homework questions. The 10 best quiz scores will be kept, and the rest will be dropped. There will be no make up quizzes given. The quizzes are a good way for you to gauge your understanding of the current material and to keep up with the homework.

MIDTERMS and FINAL: There will be three midterms during the semester worth 100 points each and a final exam worth 150 points. If you cannot make it to a scheduled exam, you MUST contact the instructor BEFORE the exam if at all possible, or if an emergency, WITHIN 24 HOURS after the exam if you need to schedule a make up exam. Make up exams will only be given for extreme excuses. A doctor's note or some other physical excuse is required. Dates for exams (subject to change):

>   Midterm I - Tuesday February 16
>   Midterm II - Tuesday March 15
>   Midterm III - Friday April 23
>   **Final Exam** - Monday, May 2, 10:30am-12:30pm

HOMEWORK: Homework problems from the text will be assigned, but not collected. Homework, however, is of the utmost importance! You must keep up with the homework, and do it everyday. Here is a homework strategy that I recommend:

- Before class, read the section that we will go over.

- That evening, read the section again, paying particular attention to the example problems.

- Try each homework problem. If you can't get started, look for a similar example problem in the text.

- After getting a solution, check the answer in the back of the book. If you are correct, go on. If not, put a star by the problem, and try it again. If you still cannot solve the problem, even knowing the answer, then put two stars next to it, and ask about it in class.

- When reviewing for quizzes and exams, pay particular attention to the starred problems.

There will be opportunities to ask questions about the homework problems at the beginning of each class. However, there may not be time to answer everyone's questions, or go over every homework problem. You are encouraged to work together in groups on the homework problems. See below for "additional help".

WEBWORK: Webwork will be assigned for credit. More information coming.

ADDITIONAL HELP: Calculus is a notoriously difficult class. Expect to put a lot of time and effort into the class and homework. Do NOT allow yourself to fall behind! This class moves very quickly, and there is not time to catch up. If you feel yourself falling behind, come to my office hours to discuss how keep up. If you need extra help, contact others in the class to form a study group. Go to the Science and Math Learning Center (SMLC) in Room 1100 of the Student Success Center https://www.jmu.edu/smlc/index.shtml. You are welcome to e-mail questions to me, but please include the entire question, because I may not have access to a book when I answer your e-mail.

HONOR CODE You are to abide by the JMU honor code at all times. Ignorance of the law is no excuse. Cheating will not be tolerated and will be prosecuted to the fullest extent.

Math 236 Spring 2016 VERY tentative outline

Week 1 **January 11-15** Class overview, Calc I review, Section 5.1

Week 2 **January 18-22** No class Monday, MLK Day. Sections 5.2, 5.4

Week 3 **January 25-29** Sections 5.5, 5.3

Week 4 **February 1-5** Section 5.7, 3.6 L'Hospital's rule, 5.6

Week 5 **February 8-12** review, Midterm I, Ch 5, Section 6.1

Week 6 **February 15-19** Sections 6.3, 6.5

Week 7 **February 22-26** Sections 7.1, 7.2

Week 8 **Feb 29 - March 4** Section 7.3

March 7-11 Spring Break

Week 9 **March 14-18** review, Midterm II, Ch. 6, 7.1- 7.3

Week 10 **March 21-March 25** Section 7.4, 7.5

Week 11 **March 28-April 1** Sections 7.7

Week 12 **April 7 - April 11** Section 8.1, 8.2

Week 13 **April 14-16** Sections 8.2, 8.3

Week 14 **April 21-23** review, Midterm III, Ch. 7.4-7.7, Ch. 8.1-8.3

Week 15 **April 25** Section 8.4
Wednesday April 27 Review **Last Day of Class**

Week 16 **Monday May 2 Final Exam** 10:30am-12:30pm