

## MATH 237 – SYLLABUS – FALL 2016

**COURSE DESCRIPTION:** This course will build on your previous studies of calculus. This third semester course is a continuation of the study of functions you began in first semester calculus, but we will be studying more complicated functions than those you may have seen previously. These include functions defined using *parametric equations*, *vector-valued functions*, and *functions of two or more variables*. For each type of function we will try to understand the basic ideas of *limits*, *continuity*, *differentiability* and *integrability*. The core of this course deals with the material in Chapters 9 through 13 of the text. Additional material from Chapter 14 will be added if time allows. **Prerequisite:** MATH 236 (or the equivalent) with a grade of C or better.

Mathematics is considered a difficult subject by many. Therefore, it is important that you keep up with the class and do the homework assignments. This will help you to earn the grade you desire. To help promote a good atmosphere for learning, you are expected to respect the instructor and other students in the class. If you do not, you will be asked to leave the class. You do not need to make an appointment for my set office hours below. You are encouraged to study and work on homework assignments with others in the class. I will not grade homework assignments, but if you do not do them, you will not do well in this course.

**PROFESSOR:** James Sochacki

**OFFICE:** Roop Hall 115 **OFFICE HOURS:** Tu 2:45-4:30 (SMLC) Th 10:00-11:15 (SMLC)  
and by appointment.

**EMAIL:** [sochacjs@jmu.edu](mailto:sochacjs@jmu.edu) **HOME PAGE:** <http://educ.jmu.edu/~sochacjs/>

**CLASSTIME:** Section 3: MWF 12:20 – 1:10 B32 Tu 11:00-12:15 Miller B32  
Section 5: MWF 1:25-2:15 B32 Tu 12:30-1:45 B32

**LAST CLASS:** Friday Dec. 9, 2016.

**TEXT:** *Calculus (Multivariable Part)*, Taalman/Kohn.

**FINAL EXAM TIMES:** Section 3: F 12/16/2016 10:30-12:30 Section 5: M 12/12/2016 10:30-12:30

Your grade for this course will be determined on your scores on 3 exams, 3 homework projects, 3 team work projects and a comprehensive final exam. The exams will be based on class lectures and the homework that is assigned after each lecture. Therefore, it is important to attend class. If you miss a class, do not come see me about the missed lecture. Get the notes from someone in class. If you do not understand the notes after reading through them then come see me during office hours. The 3 exams will be worth 75 points each and each exam will be a closed notes and closed book in class exam. The homework projects will be worth 50 points and will be a take home project. The team work projects will be worth 25 points and will be done in class. The final exam will be comprehensive and will be worth 150 points. It will be an in class, closed notes and closed book exam. There are 600 total points.

All exams are held under the JMU honor code. Calculators can only be used on the exams to help with calculations. The dates of the exams will be announced in class two weeks before the date they will be given. There will be no make-up dates for the in class exams. If you miss an in class exam you receive a 0 on that exam unless you let me know before the date of the exam that you will be missing the exam. If you send an email you MUST receive a response from me before you have an excused absence for the in class exam.

Grading in this course will be on a straight percentage. At any time you can determine your grade by calculating your percentage. The grading scale is as follows.

**A 90 - 100%**

**B 80 - 89%**

**C 65 - 79%**

**D 50 - 64%**

**F below 50%**

**Course Mission and Goals:** We will cover most of the material in Chapters 9-13 of the text. Reading and homework assignments will be given at the end of each lecture. It is your responsibility to do these assignments. You will learn about multivariable calculus. You will discover that many things in mathematics and in your daily lives involve multivariable calculus. You will be introduced to the beauty and applicability of multivariable calculus.

**I reserve the right to change the syllabus during the semester if it is in the best interest of the course to do so.**

Syllabus information from the university is available at <http://www.jmu.edu/syllabus> .