

M235 Calculus I (Section 0013)

MWF 12:20 - 1:10, Roop 129

Tu 12:30 - 1:45, Roop 213

Text: *University Calculus* by Hass, Weir, and Thomas, Addison-Wesley/Pearson 2007.

Prerequisite: Sufficient score on the Mathematics Placement Exam.

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Office Hours: MWF 8:30 - 9:30, Tu 9:00-10:00, and by appointment.

Course Goals: In this course, the student should develop an understanding of both the *theory* and applications of the Calculus topics covered and enhance problem solving skills. This course is not about memorizing and using formulae. You need to be able to show (prove!) *why* the math works!

Course Content: This course covers topics in Chapters 2–6 of the above text. See the M235 link on my website www.math.jmu.edu/~warneda/math235.html (this is NOT blackboard) for information and homework assignments to be updated regularly throughout the semester. NOTE: Review of some prerequisite material is contained in Ch.1. WE will not review this material. YOU should. Our diagnostic prerequisite skills test to be given on the second day of class should help you recognize if you are not prepared to take this class or if you just need to review some topics.

Homework and Quizzes: Doing homework regularly, and understanding WHY you are doing what you're doing, is extremely important to your success in this class. The goal is not just to get the homework done. Putting in more effort up front will save you many headaches later. You should try to find some classmates for study groups, etc. Much learning can occur when you are seeing a topic from someone else's perspective. Homework will not be collected, however there will be several homework quizzes throughout the semester. These quizzes, and the sections they will cover, will be announced with 1–2 days notice and problems will resemble assigned homework or classwork for those sections. There will be NO MAKEUP QUIZZES given for ANY reason. A few assignments (hw projects) may also be collected as part of your grade.

Learning Center: The Science/Math Learning Center in Roop 200 is open in posted daytime, evening, and weekend hours and offers FREE help in a variety of math courses, including M235. It is *highly recommended* that you utilize this extremely valuable resource. See the tutorial center website for details: <http://www.jmu.edu/smrc/>.

Technology: A generic scientific calculator is all you will need (and sparingly at that) for this course. A graphing calculator, such as the TI-8X, X=2,3,5,6, is allowed, however calculators with symbolic manipulation capabilities are not, and graphing calculators will not be allowed on some (most!?) exams and quizzes.

Attendance: It has been shown by experience that lack of attendance in this class correlates highly with a lack of success in this class. It is highly recommended that you attend *every* class; our pace will be quick and you will be responsible for material covered in class that may not appear in your text. I will not use office hours to go over material that you missed from not attending class. If you have an extended illness, contact me as soon as possible.

Grading Policy: 90–100: A- to A range; 80–89: B- to B+ range; 70–79: C- to C+ range; 60–69: D to D+ range; 59 and below: F. An exceptional job on the final exam or excellent class attendance and participation could bump borderline cases up to the higher grade. WP/WF requests will be considered only up until one week after the second exam. A grade of C- is needed for WP, if granted. Grades will be calculated as follows:

- 1. HW/Quizzes: 19 % .** See the description above.
- 2. Three exams: 57 % .** Exam dates will be announced with at least one week notice, and will likely occur in mid-late Sept., Oct., Nov. DO NOT MISS AN EXAM!!! Make-up exams will be given only in the most extreme of circumstances constituting a DOCUMENTABLE, EXTREME, SUDDEN, EMERGENCY situation. A missed exam for any other reason will result in a score of zero for that exam. Our third exam will likely be held on Fri. Nov. 20, depending on where we are at that time. Plans to leave early for Thanksgiving break DO NOT constitute a legitimate excuse for missing this exam. Please plan accordingly.
- 3. Comprehensive final exam: 24 %.** Wednesday, December 9, 8:00 - 10:00am.