

M232 Calculus with Functions II

Section 0001:

MWF 10:10 - 11:00, Burruss 0032
Tu 9:30 - 10:45, Burruss 0033

Section 0002:

MWF 11:15 - 12:05, Burruss 0032
Tu 11:00 - 12:15, Burruss 0033

Text: *Integrated Calculus* by Laura Taalman, Houghton Mifflin, 2005.

Prerequisite: MATH 231 with a grade of C- or better. NOTE: MATH 231-232 together are equivalent to MATH 235 for all prerequisites. MATH 232 is not open to students who have already earned credit in MATH 235.

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Office Hours: MWF 9:15-10:00, Tu 1:15-2:15, 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.

Course Content: MATH 232 is a continuation of MATH 231. Calculus topics include limits and derivatives of transcendental functions, the theory of integration and basic integration techniques (Chapters 7–15 of the above text.) See the M232 link on my website www.math.jmu.edu/~warneda/math236.html (this is NOT blackboard!!) for information and homework assignments to be updated regularly throughout the semester.

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. The best way to study for these quizzes is to set aside a REGULAR, DAILY time for working on homework, and to write out COMPLETE solutions to your homework problems when doing homework. This is what I will expect to see on your quizzes. I care far more about your understanding of WHY you are doing what you are doing and the whole process of HOW you are getting your answer than the answer itself. Correct answers without sufficient supporting work and reasoning will NOT receive anything close to full credit!!

Learning Center: The Science/Math Learning Center, located in Roop 200 offers FREE help in a variety of math courses, including M232. It is *highly recommended* that you utilize this valuable resource. For details see <http://www.jmu.edu/smrc/> .

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 very quick and you will be responsible for material covered in class that may not appear in your text as well as material in your text that may not be covered in class. 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.

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 most exams and quizzes.

Test Advice: You should be studying for tests for the entire time period (roughly one month) prior to the test. You will need to find out what works for you to make the material yours, that is, something you understand, not something you mimic. In addition to dedicated work on homework, some successful strategies, among others, are using notecards or post-its to stick on your dorm wall or mirror for important definitions, theorems, results, basic knowledge items, etc., regularly writing problems/theoretical results of various sorts from or related to hw/class on separate, blank pages that you can keep adding to over the course of the month. Then study so that you are able shuffle these up and work the problems on the blank sheets WITHOUT looking at anything, i.e., in a mock-testing situation! This will help you realize what/where you need crutches that you won't have for the real tests, and to get them cleared up BEFORE the test!

Grading: 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 next higher grade (for example, C+ to B-). WP/WF requests will be only be considered prior to one week after I return test #2. For WP (if granted), a C- is needed. Grades will be calculated as follows:

- 1. Homework Quizzes: 18 % .** See the description above.
- 2. Tests: 60 % .** Three tests for in-depth understanding of material covered. Tentative test dates are *Mon. Sept. 22, Weds. Oct. 28, and Fri. Nov. 21*. Any change in test dates will be announced with at least one week notice. The Friday Nov. 21 test date WILL NOT change. DO NOT MISS A TEST!!! Make-up tests will be given only in the most extreme of circumstances constituting a DOCUMENTABLE, EXTREME, SUDDEN, EMERGENCY situation. A missed test for any other reason will result in a score of zero for that test.
- 3. Final Exam: 22 %.** Comprehensive and cumulative. Date/Time to be determined.