1 Course Overview

INSTRUCTOR: Mehrdad Alvandipour

Email: m.alvandipour@ufl.edu
Lectures: Online every weekday (MTWRF) 11am - 12:15pm at
https://ufl.zoom.us/j/94775363588

Office hours: Online Thursday 2pm - 3pm at https://ufl.zoom.us/j/94775363588

1.1 Content

MAC 2233 is the first in the two semester sequence MAC 2233 and MAC 2234 surveying the important ideas of calculus but emphasizing its applications to business, economics, life and social sciences. The course covers important precalculus topics: basics of functions and graphing, specific functions and their applications as models (linear, quadratic, rational, exponential and logarithmic) as well as calculus: limits, the definition of the derivative, differentiation techniques, applications of the derivative including rates of change, curve sketching, and optimization, intro- duction to integration and its applications including area and total change.

A minimum grade of C (not C minus) in MAC 2233 satisfies three credits of the university General Education quantitative requirement, and three hours of the state Writing/Math requirement.

This is an ONLINE VERSION of MAC 2233. All content is delivered online. Students view 35 online lectures in the course management system CANVAS, and complete online homework and quizzes using MyMathLab software. Students are encouraged to post questions and answers on the course discussion board in CANVAS.

1.2 Prerequisites

MAC 2233 assumes that you have essential precalculus skills necessary to succeed in calculus. This course does not cover trigonometry. To enroll in MAC 2233, you must have a grade of C or better in MAC 1140, precalculus algebra, earned calculus credit through an exam or earlier coursework, or have taken the ALEKS placement assessment and attained the required minimum score. You may take the ALEKS assessment through the Student Self Services

homepage https://student.ufl.edu; click on Placement under My Online Services. For more complete information, check the page https://student.ufl.edu/aleksinfo.htmlNote the follow- ing paragraph: "The Department of Mathematics encourages you to take the assessment even if you have met one of the prerequisites for MAC 2233. You may need to review your algebra skills and your placement assessment can provide information and specific areas for additional study." You can check with an advisor in your college or contact your instructor if you have questions about placement.

The textbook for MAC 2233 begins with a short review of precalculus topics including a short diagnostic test, and a precalculus review assignment and quiz in MyMathLab. Completing these assignments during the first week of the semester will help you assess your preparation for calculus. You should already be competent in working this material. We strongly recommend that students who are having difficulty with the review assignments consider first taking MAC 1140, a three credit review of Precalculus Algebra which is offered as a UF online course. You may switch courses on ISIS during the drop- add period. If you feel you are not ready for MAC 2233 after you attempt the Precalculus Review in MyMathLab, you should consider dropping by May 14, 2019 and taking MAC 1140.

1.3   Necessary Materials

- TEXTBOOK:

  Note: E-book versions of the textbooks are included with WebAssign.

  Calculus with Applications, Eleventh Edition by Lial, Greenwall and Richey. The text may be accessed as an ebook through the online MyMathLab homework system.

- MYMATHLAB: All students are required to have access to MyMathLab. This includes an e-book version of the textbook. A hard copy of the text is not required. A MyMathLab access code may be purchased either:

  1. Via UF's "Opt-In" utility, which bills directly to your student account: https://www. bsd.ufl.edu/G1CO/IPay1f/start.aspx?TASK=INCLUDED. Steps on how to do this are listed in Canvas.
  2. From the UF Bookstore: individually or bundled with the new textbook.

  DO NOT TRY to purchase your access code online except from Pearson through MyMath-Lab. Other codes may not provide access to our MyMathLab course which is accessed through CANVAS. Iff you are having problems accessing MyMathLab through CANVAS or if your access code is showing as invalid, please contact the publisher at: allaccess@bsd.ufl.edu .

COMPUTER ACCESS AND REQUIREMENTS: All assignments should be taken on a computer, not cell phone or tablet, since there may be compatibility issues with CANVAS and My-MathLab. Be sure you are using a browser that works with MyMathLab and CANVAS; do not use Safari since some course material may not show up correctly. Your MyMathLab homepage provides a browser check.

You may contact the publisher using the following link if you are having difficulties: https://support.pearson.com/getsupport/s/contactsupport.

You are responsible for having reliable access when working assignments or quizzes online.

- CALCULATOR: For text and homework problems, a scientific calculator doing basic statistics is required. A graphing calculator or computer program such as Wolfram Alpha can be useful learning tools when used appropriately to supplement your work on individual problems but they are not required. Some videos will illustrate concepts using a TI-84 graphing calculator. Remember that calculus is a collection of concepts and ideas that are not mastered through calculator skills. No calculators are permitted on quizzes. They are designed to be worked without access to a calculator.

2   Grade overview

Your overall course grade will be based on your performance on the following assignments:

- LECTURE QUIZZES:

  Attending the online lectures is an important aspect of the learning process. Video lectures are also available and can be accessed through the modules in CANVAS. There are several lecture questions included in each lecture. A Lecture Quiz including some of those questions is posted for each lecture in CANVAS. We encourage you to use the text as well as the videos to help you work the quiz problems; one question on a quiz may be from a worked out textbook example so you can see its solution. You may also post questions about the Lecture Quizzes on the class discussion board or ask for help during office hours. The Lecture Quizzes are due on the date of lecture. We encourage you to work the quizzes early, after you have watched and studied the videos, while the material is fresh in your mind. Five of the lecture quizzes are dropped at the end of the semester, so ABSOLUTELY NO EXTENSIONS OR MAKE UPS on the Lecture Quizzes.

- MYMATHLAB HOMEWORK AND QUIZZES:

  Online homework administered in MyMathLab is planned to review concepts and to provide practice of the lecture material. Homework assignments will be posted with

each module and the due dates are posted in the course Calendar. The homework problems are graded by the software and you see your score immediately after submitting your work. You will have six attempts for each problem (except multiple choice or true/false); there are aids and a link to the ebook to help you solve each question. You will also have a total of 13 MymathLab (MML) Quizzes. Their due dates are posted on the course calendar. You have 90 minutes for each quiz and 3 submissions. Your highest grade will be recorded.

There are no makeups or drops for online homework. Do not try to complete an assignment in one sitting; start early instead of waiting until the due date to avoid missing the deadline. However, once the due date has passed you may still work on the MyMathLab assignments through the end of the semester to raise your homework grade. There will be a 10% penalty on those questions not completed by the original due date.

- EXTRA CREDIT:
  Opportunities to earn extra credit will be offered throughout the semester in form of bonus points on the quizzes and other. Also there are two Precalculus review assignment and quiz due the end of the first week of the classes. Make sure you read all announcements in order not to miss these extra credit opportunities.

- MAKE-UP AND EXTENSION POLICY:
  All assignment deadlines will be clearly indicated on the course Canvas calendar. Late assignments will not be accepted. For technological problems, see the Getting Help section below.

3 Grade Distribution

To summarize, your final grade in the course will be derived as follows:

Lecture Quizzes	40%
MML Homework	40%
MML Quizzes	15%
Extra credit	5 %
	100%

This grade will then be converted to a' letter grade using the following grading scale:

>= 90%	A	67%	- 72.8%	C
87% - 89.8%	A-	64%	- 66.8%	C-
84% - 86.8%	B+	62%	- 63.8%	D+
80% - 83.8%	B	57%	- 61.8%	D
76% - 79.8%	B-	56%	- 56.8%	D-
73% - 75.8%	C+	<56%		E

Note: Any grade lower than C does not give Gordon Rule or General Education credit. Extra assignments for individual students to improve a grade are not possible. There will be no review of disputed points at the end of the semester. All grade concerns must be settled within one week of the receiving the grade on the assignment. For a complete explanation of current policies for assigning grade points, refer to the UF undergraduate catalog: https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx.

4 General Information
4.1 Getting Help

TECHNICAL DIFFICULTIES

For issues with technical difficulties for Canvas, please contact the UF Help Desk at:

- http://helpdesk.ufl.edu
- (352) 392-HELP (4357)
- Walk-in: HUB 132

Any requests for make-ups due to technical issues MUST be accompanied by the ticket number received from the Help Desk when the problem was reported to them. The ticket number will document the time and date of the problem. You MUST e-mail your instructor within 24 hours of the technical difficulty if you wish to request a make-up.

Other resources are available at http://www.distance.ufl.edu/getting-help for:

- Counseling and Wellness resources
- Disability resources
- Resources for handling student concerns and complaints
- Library Help Desk support

Should you have any complaints with your experience in this course please visit http://www.distance.ufl.edu/student-complaints to submit a complaint.

MATHEMATICAL OR OTHER DIFFICULTIES

There are many resources available to help you succeed in the course. In addition to your instructor, resources include:

1. The Teaching Center Math Lab, located at SE Broward Hall, is a tutorial service staffed by trained math and science students to provide help with your calculus questions and home-work. Tutors will be glad to provide guidance on specific problems after you have attempted them on your own. You may want to attend different hours to find the tutors with whom you feel most comfortable. You can also request free one-on-one tutoring. Check the web-page, https://teachingcenter.ufl.edu/ for a map of the location, tutoring hours, and more. All students are encouraged to use the resources of the Broward teaching center.

2. Office of Academic Support offers free one-on-one and small group tutoring sessions to any UF students. See http://oas.aa.ufl.edu/programs/tutoring/ for details.

3. UF Counseling Center provides information and workshops on developing Math Confidence. The center also offers counseling support in case of issues with academics, adjusting to the stress of college life, or personal challenges. Please use this resource before you get overwhelmed! You may contact the center at https://counseling.ufl.edu/.

SUCCESS

Other than having a strong precalculus background, success in MAC 2233 depends largely on your attitude and effort. Mathematics is not a spectator sport. You will only under- stand the material when you are actively engaged. It is not effective to watch a video and copy notes without following the thought processes involved in the lecture. Instead, before watching a lecture video it is important to look over the textbook sections to be covered to become familiar with the vocabulary and main ideas. That way you will better be able to grasp the lecture material. After watching the video, before you attempt homework prob- lems and quizzes, you should reread the text as well as study the lecture to understand its main ideas and the steps involved in solving the example problems.

As with most college courses, you should expect to spend a minimum of 2 hours work- ing on your own for every hour of classroom instruction (at least 6 hours per week). You should therefore plan to spend at least 10 hours each week on this online course including the time spent watching the lecture videos.

It is critical that you keep pace with the course material as presented in the module for each week. Do not fall behind. Ask questions either in office hours (on campus or online) or using the resources listed below; do not let misunderstandings go unanswered. Students who do not

actively participate have much more difficulty. We recommend studying with others, and an important resource to facilitate communication in an online course is the MAC 2233 discussion board in CANVAS. You should check the discussion board regularly, posting questions and answers for fellow students. The effort of asking questions and communicating ideas clearly, as well as the practice of writing solutions, are effective tools in helping you better understand calculus concepts. The instructor for MAC 2233 will check the discussion board regularly to answer student questions and to post selected problem solutions.

In studying calculus, you must be careful not to let a tutor, friend, or calculator think for you. Be sure that you can work problems completely on your own, without help, by the time of a quiz.

USE THE RESOURCES AVAILABLE AS YOU STUDY! We encourage you to seek help from your instructors through email and office hours and from your peers using the discussion board in CANVAS. Contact the Broward Teaching Center, teachingcenter.ufl.edu, for tutor-ing services and sample exams with solutions. MyMathLab also offers videos and other teaching aids, including a solutions manual for the odd numbered textbook exercises.

Our hope is that through focused study and practice you will gain a real appreciation for the important concepts of calculus and their application. We want you to succeed in this class! But you must keep up with the course material and take the initiative to get help in time, before you get too far behind. Students with a positive attitude who are intellectu- ally engaged as they work through the lectures and homework will learn the most from the course.

4.2   Accommodations for Students with Disabilities

Students requesting class and exam accommodations must first register with the Dean of Students Office Disability Resource Center (DRC). Information about the DRC is available at https:// drc.dso.ufl.edu/. The DRC will provide a documentation letter to the student to present to the course instructor. This must be done as early as possible in the semester (i.e. at least 7 business days before the first exam), so there is adequate time to make proper accommodations.

4.3   Academic Honesty Policy

All University of Florida students are bound by the Honor Pledge, which states:

We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code.

As such, on all work submitted for credit by students at the University of Florida, the following pledge is either explicitly required or implied:

On my honor, I have neither given nor received unauthorized aid in doing this assignment.

You should read and familiarize yourself with the Honor Code, available at https://sccr.dso.ufl.edu/students/student-conduct -code/. It specifies a number of behaviors that are in violation, and the possible sanctions. Furthermore, you are obligated to report any condi- tion that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor.

In addition, we remind you that lecture videos are the property of the University/faculty mem- ber and may not be used for any commercial purpose. Students found to be in violation may be subject to discipline under the Student Conduct Code.

Disclaimer: This syllabus represents my current plans and objectives. As we go through the semester, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.