

## 1 Course Overview

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### 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, introduction 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. Three semester exams and a final are posted in CANVAS and administered through Honorlock.

### 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.html> Note the following 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 MyMathLab. Other codes may not provide access to our MyMathLab course which is accessed

through CANVAS. If 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](mailto: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 MyMathLab. 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>.

It is recommended that proctored exams should be taken with a wired connection, rather than wireless, if possible. You are responsible for having reliable access when working exams 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 exams. They are designed to be worked without access to a calculator.

#### 1.4 Lecture Videos

The lecture videos provide the main presentation of course material, and are accessed through the CANVAS modules. To stay current with the course, we recommend watching the videos weekly following the schedule posted on the course calendar. To help you test your understanding, there are questions included in each lecture. You will also complete the corresponding Lecture Quiz for each lecture in CANVAS. You should study the videos and the corresponding textbook sections to understand the concepts and problem solving algorithms of a lecture before you take the required Lecture Quiz and attempt the Now You Try It examples and MyMathLab assignments. You may contact your instructor or post questions on the course discussion board if you need clarification of a topic. Be sure to take advantage of online office hours! The Broward Teaching Center at UF also provides online support and is a valuable resource.

Students should print out the lecture noteshells from the module page before watching each video.

## 2 Testing ([back to top](#))

### 2.1 Semester Exams

This course uses the online proctoring service [ProctorU](#) for exams. The exams are taken in Canvas under the supervision of a proctor from ProctorU. You must register with ProctorU for each exam at least 4 days prior to the exam date. It is highly recommended that you reserve your exam time slots for all of your exams early in the semester in order to guarantee you can take the exam at the most convenient time for you. The exams will take place on:

Exam 1 .....	Friday, June 3rd
Exam 2 .....	Friday July 8th
Exam 3 .....	Friday July 29th
Final Exam .....	Wednesday, Aug 3rd

Students are responsible for material covered in the course, including lectures, homework, and quizzes.

For each exam, you should have only the following items: pencils or pens, your Gator1 ID card or a government-issued picture ID and up to 10 sheets of completely blank, white, scratch paper (no holes, lines, printing, etc). No calculators are allowed. No cell phones, no notes, no books, no outside help.

It is your responsibility to make sure that you have a stable, reliable internet connection when taking quizzes and exams. No special make-ups will be given due to technical problems.

### 2.2 Final Exam

Final Exam A mandatory, comprehensive final examination will be given as indicated on the course calendar. **IMPORTANT:** The final exam is critical to your course grade and is required of all students. The exam score will count as 100 points of your final point total. We also allow the final exam score to improve your grade on one of the semester exams. That is, if your final exam grade is higher than the lowest of your three semester exam scores, its percent score prorated to 80 points will replace that lowest test. For example, if your lowest semester exam score is 56 and you earn 80% (84 points) on the final, the exam score of 56 will be replaced by 64 (80% of 80 points) in the gradebook. If the final exam score is lower, however, the original semester test score will remain. Note: You may not use a calculator or any other study aid for exams. Be sure to read the Honorlock handout thoroughly to understand the exam procedures before you start a test. You are responsible for having a secure connection during the exam. We cannot give makeup work for a fail

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### 3 Grade Overview ([back to top](#))

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

- VIDEOS AND LECTURE QUIZZES:

Viewing the lecture presentations is an important aspect of the learning process. Videos are accessed through the modules in CANVAS, and you should print out the lecture out-line before each lecture to fill in as you follow the video presentation. There are several lecture questions included in each lecture. You should work these problems as you watch the videos. 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. These lecture quiz scores as 10% of your final course grade. 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.

- **EXAMS:**  
There are three exams worth 80 points each and a final exam worth 100 points. IF IT HELPS, you may substitute your final exam score for the lowest exam score (rescaled appropriately, of course, to compensate for the disparity in point values). Some bonus points will be included in the exams.
- **EXTRA CREDIT:**  
Opportunities to earn extra credit will be offered throughout the semester in form of Exam review discussions, bonus points on the exams and other. 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. Make-up exams are given only for extreme unforeseen circumstances. In case of illness, documentation will be required. For technological problems, see the Getting Help section below.

#### 4 Grade Distribution [\(back to top\)](#)

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

MML Homework	15%
MML Quizzes	15 %
Exams	45%
<u>Final</u>	<u>25 %</u>
	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>.

## 5 General Information ([back to top](#))

### 5.1 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 homework. 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 webpage, <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 understand 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 problems 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 working 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 us-



ing 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 or exam.

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](http://teachingcenter.ufl.edu), for tutoring 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 intellectually engaged as they work through the lectures and homework will learn the most from the course.

## 5.2 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.

## 5.3 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 condition 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 member 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.**





