

Calculus with Analytic Geometry I

MAC 2311-H Lecture

4 Credit Hours

Fall 2024

Instructor: Dr. Chamila Gamage
Office: LIT 320
E-mail: cgamage@ufl.edu
Office Hours: LIT 320, MWF Period 7 (1:55 PM - 2:45 PM)

Main Lectures: (Class Numbers: 28219, 28220)

MWF Period 4 (10:40 AM - 11:30 AM) LIT 237

Discussion Section	Time	Location	TA
5KL9 depx	T Period 4 (10:40 AM - 11:30 AM)	LIT 233	TA
FL01 depx	T Period 7 (1:55 PM - 2:45 PM)	LIT 233	TA

Prerequisites Any of the following: Minimum acceptable score on the online mathematics placement exam (ALEKS), which is a 76 or higher; a grade of *C* in a MAC course numbered 1147 or higher; AP credit for MAC2311; IB credit for a MAC course numbered 1147 or higher. Any course grades, AP, or IB scores used to meet this prerequisite must be on file at UF by registration.

Course Description This honors course will cover the standard subject matter covered in MAC 2311, which is the first in the three-semester sequence MAC 2311, MAC 2312, and MAC 2313, with a special emphasis on concepts and theory. Intended topics will include functions and inverse functions, limits, continuity, differentiation of algebraic and trigonometric functions; applications of derivatives; integration and the fundamental theorem of calculus; applications of definite integrals. (M) Credit will be given for, at most, one of MAC 2233, MAC 2311 and MAC 3472. MAC2311 credit will also provide credit for MAC2233, but not the other way around.

General Education Objectives and Learning Outcomes This course is a mathematics (M) course in the UF General Education Program. Completing this course with a minimum grade of C will satisfy the student's State Core Mathematics requirement of the UF General Education Program. Courses in mathematics provide instruction in computational strategies in fundamental mathematics including at least one of the following: solving equations and inequalities, logic, statistics, algebra, trigonometry, inductive and deductive reasoning. These courses include reasoning in abstract mathematical systems, formulating mathematical models and arguments, using mathematical models to solve problems and applying mathematical concepts effectively to real-world situations.

After successful completion of this course students will have demonstrated competency in the following Student Learning Outcomes (SLOs):

- **Content:** *Students demonstrate competence in the terminology, concepts, theories, and methodologies used within the discipline.* After completing this course students will gain a knowledge of limits, differentiation, and integration.
- **Communication:** *Students communicate knowledge, ideas, and reasoning clearly and effectively in written and oral forms appropriate to the discipline.* Throughout this course students will communicate mathematical ideas verbally in their discussion sessions and as well as through writing on discussion quizzes and exams.
- **Critical Thinking:** *Students analyze information carefully and logically from multiple perspectives, using discipline-specific methods, and develop reasoned solutions to problems.* Students will apply their knowledge to solve problems concerning topics that include, but are not limited to, differentiation techniques, Calculation of exact areas under curves, application of rates of change to physical examples of position, velocity and acceleration, identifying the limit of various functions, using the derivative as a tool for approximation through differentials and linear approximation, among countless other applications.

Required Materials

There are no required textbooks for this course. We will make use of a free online textbook available at [Openstx Calculus Volume 1](#) as well as Stewart Calculus. Both will be provided as supplemental material on our Canvas website. Also, in this course we will use the online platform Xronos which has been developed at UF and is supported by the Office of the Provost and the College of Liberal Arts and Sciences. Xronos is accessible through the Canvas site. More details will be given in class.

E-Learning Canvas:

E-learning canvas, a UF course management system, is located at elearning.ufl.edu. Use your Gatorlink username and password to login. All course information including your grade, course homepage, syllabus, lecture outlines, office hours, test locations, mail tool, discussion forum, free help information, etc. can be accessed from this site.

You are responsible for verifying that your grades are accurate. **You have one week after a score has been posted to contact your TA if you believe there has been a recording error. There is no grade dispute at the end of the semester.**

Please note: Important course information is clearly communicated in this course guide, the MAC 2311 homepage and links in Canvas, and announcements in lecture and discussion. Due to the volume of email received by the instructor and TAs, we cannot reply to each request for this well publicized information. If you cannot find your answer in the resources above, there is also a **Discussion Forum** available in Canvas. Please use this to post questions and to supply answers to your fellow students.

E-mail

All communication between student and instructor and between students should be respectful and professional. All official class communications will be sent only to the ufl.edu addresses. Students are responsible for acquiring, checking their email accounts regularly, and any class information sent to their ufl.edu account. Please be sure to sign your name to your e-mails.

Lectures The class meet for in-person 50-minute lectures in LIT 237 Mondays, Wednesdays, and Fridays from 10:40 am - 11:30am. Along with this, you will meet with your discussion leader once a week, either on a Tuesday for Thursday for one period a week. In your discussion class, you will (usually) take a weekly quiz. Therefore, attendance to discussion sections is mandatory, and a great way to review the past week's material. Attendance to the lectures are **strongly** encouraged, since missing just a few will put you behind in the class.

Lecture Quizzes Immediately after you attend the lecture, you should take the corresponding lecture quiz on the material covered that particular day. The three lowest online lecture quiz grades will be dropped at the end of the semester. You have three attempts on each online canvas quiz.

Discussion Sections Discussion sections meet once a week on either Tuesday or Thursday depending on which section you are enrolled in. These meetings give you a valuable opportunity for open discussion of the lecture material and assigned problems in a smaller class setting. **Attendance in discussion is required as it is where weekly quizzes will take place.** However, one period per week is generally not adequate to answer all questions. Be sure to take advantage of the opportunities outside of class for additional help.

Your main resource is your discussion leader. He or she will be available during office hours (or by appointment) to answer your questions about the course material. Your TA is responsible for grading and recording all quiz scores. You must retain all returned papers in case of any discrepancy with your course grade. As mentioned above, **you should check Canvas regularly and consult with your TA if you have any questions about recorded grades. All grade concerns must be taken care of within one week of receiving the score.**

If you have concerns about your discussion class which cannot be handled by your TA please contact your instructor.

Tests Mid-term exam dates are as follows:

Tuesday, September 17, 2024, 8:20PM - 10:00PM

Wednesday, October 16, 2024, 8:20PM - 10:00PM

Tuesday, November 12, 2024, 8:20PM - 10:00PM

Makeup: TBD, ?::? PM - ?::? PM

Final: TBD, ?? PM - ?? PM

There will be three (paper and pencil) midterms throughout the semester. The midterms will consist of two parts. Part 1 will be multiple choice questions. Part 2 of the midterm exams will consist of free response problems.

These midterm exams will take place in the evening, from 8:20 PM to 10:00 PM.

The FINAL EXAM will take place on TBD. Make a note of this now and please inform any interested parties (e.g. your parents) who may be making plans for you around that time (such as purchasing plane tickets to fly home, etc.).

Each midterm exam is worth 15% of your final grade while the final exam is worth 25% of your final grade. No exam grades will be dropped. There are no exam retakes.

Exam Policy

Please come to the exams prepared with pencils/mechanical pencils and your ID (UFID or other government issue ID). You may not use pen. Do not enter the testing room until the proctors have finished setting up the room and allowed you to come in. You may not have your phone out at all during the exam. If you are using your phone during the exam, this will be considered academic dishonesty and the issue will be escalated to the appropriate channels. There are no calculators allowed on exams. Respect other students and the proctors while in the testing room. Any transcription errors that occur on your scantron or free response are there to stay after the exam. These errors include, but are not limited to: bubbling in the wrong form code, not bubbling in your answers, bubbling in the wrong section number, bubbling your answers in the wrong places, leaving answers blank, etc. Providing the wrong information such as your section number or name during an exam may greatly delay the grading of your exam. It is very important that you are aware of what is going on and following directions carefully so no materials are lost and that your exam is graded properly. An exam that is lost due to incorrect bubbling or attending the wrong room will not be the fault of the instructor nor the TA and you may forfeit your grade (receive no credit) for that particular exam.

Online Homework

In this course we will be using the online platform Xronos which is free of charge and will be explained during class. Complete Xronos homework by first navigating to our Canvas page. Once in Canvas, go to the assignments section of canvas and complete assignments directly. There is a slight delay in scores being recorded to Xronos. Be patient as your gradebook will update a little bit every so often until you reach 100 percent for the assignment. Please double-check in the canvas gradebook that your scores are in fact recording. Reach out to me as soon as possible of any technical difficulties that may arise. If you encounter any technical difficulties, you can attempt to clear browsing history and/or open the assignment in a new browser. You could also try using another device such as your phone, an ipad, or one of the on-campus library computer. If you feel these difficulties will impact your performance, please let your instructor know with advanced notice. Technical difficulties are not an excuse for missing an assignment. Please start your assignments early and give ample notice if you encounter issues.

Please do not wait until the last minute to start your homework. **No Xronos assignment grades are recorded in canvas after the due date.** There will be a total of **three** dropped Xronos homework grades at the end of the semester.

All assignments will have posted due dates and will follow our pace in the course. Please keep up with the due dates of assignments using canvas.

Personal computer issues are NOT a valid reason for any type of extension. The same is true to multiple assignments being due in other classes at the same time. Manage your time wisely.

Warning: I will not accept late Xronos work after it is due, so please check your gradebook regularly to ensure your scores are being updated. This warning includes grading discrepancies at the very end of the semester. In no capacity will I award points for Xronos HW after it is due - do not ask me to do this.

Class Participation

Attendance in class is strongly recommended and discussion section attendance is mandatory for in-person sections. Students who come to class and participate are more likely to do well in the course.

There will be weekly quizzes during your discussion, based on the homework and classwork. The quizzes will be administered by your TA and any questions about the grades should be directed to him or her. If your TA is unable to address your questions, please contact the course coordinator. Your two lowest discussion quizzes will be dropped at the end of the semester.

There will be weekly quizzes during your discussion, based on the homework and classwork. Quizzes make up a total of 10% of your grade. The quizzes will be administered by your TA and any questions about the grades should be directed to him or her. If your TA is unable to address your questions, please contact the course coordinator. Your **two** lowest discussion quizzes will be dropped at the end of the semester.

Project

Each student will submit a proposal for and complete a project on something related to the class. More details will be provided a week or so into the course.

Make-up Policy

All make-up work must be arranged with the course coordinator.

• **Exam Conflicts - UF during Term Assembly Exam Policy:** (catalog.ufl.edu/ugrad/current/regulations/info/exams.aspx):

“During-term examinations are held during regular class times or during assembly exam periods, which are Monday-Friday from 8:20 - 10:10 p.m. (periods E2-E3) for the fall and spring terms and Monday-Friday from 7:00 - 9:45 p.m. (periods E1-E2) for the summer terms. If other classes are scheduled during an exam time, instructors must provide make-up class work for students who miss class because of an assembly exam. When two exams conflict, assembly exams (multiple sections and enrollment over 300) take precedence over non-assembly exams (single sections and/or enrollment under 300). If two assembly exams conflict, the course with the higher number will take priority. Likewise, if two non-assembly exams conflict, the higher number will again take priority. Instructors giving make-up exams will make the necessary adjustments. Students shall be permitted a reasonable amount of time to make up the material or activities covered in their absence. A reasonable amount of time to make up a during-term exam is before the end of the semester in which the student is enrolled in the class.”

If MAC 2311 is the lower course number, students must inform the course coordinator at least ONE WEEK in advance of the exam date so that appropriate accommodations can be made. Otherwise it may not be possible to reschedule.

• **Make-up Exams:** If you are participating in a UF sponsored event or religious observance, you may make up an exam only if you make arrangements with the course coordinator during the **FIRST TWO WEEKS OF THE COURSE**. You must present documentation of a UF sponsored event.

If illness or other extenuating circumstances cause you to miss an exam, contact the course coordinator (no later than 24 hours after the exam) by email. Then, as soon as possible after you return to campus, provide the appropriate documentation to the course coordinator. You will be allowed to sign up to take a makeup exam at the end of the semester.

• **Exam retakes:** Under no circumstance will a student be allowed to take an exam twice to improve their score.

- **Make-up Xronos HW:** There are no make-ups. Xronos Homeworks are released with many weeks to complete the assignments. Please reach out to me with plenty of advance notice if you're having Xronos issues. Technical issues the day before the homework is due is not an excuse.

- **Make-up discussion quizzes:** Missed discussion quizzes can be made up if appropriate documentation is provided. You must e-mail your instructor your documentation and receive a confirmation from them to make-up the quiz - **no exceptions**. If you miss a discussion quiz, then you should contact your instructor, NOT your TA, as soon as possible to arrange a make-up quiz. I will offer four make-up quiz periods throughout the semester. You will need to attend the quiz make-up period that is directly AFTER the quiz you missed. You may show up at any time during the periods listed below, but please allow yourself at least 20 minutes for your visit. Remember, you can only make up a quiz with an excused absence. Simply not going to discussion class is not a reason warranting a make-up quiz. **When you attend the make-up quiz period, you will need to show me your e-mail approval for which quiz number you are making up. Typically this means showing the contents of the approval e-mail on your phone to the proctor. You will not be permitted to take a make-up quiz without the course coordinator's approval.** The make-up quiz period dates are:

Session 1: TBD, Time/Location:TBD

Session 2: TBD, Time/Location:TBD

Session 3: TBD, Time/Location:TBD

Session 4: TBD, Time/Location:TBD

Incomplete

Students who are currently passing a course but are unable to complete the course because of illness or emergency may be granted an incomplete grade of I which will allow the student to complete the course within the first two weeks of the following semester. See the policy on <http://www.math.ufl.edu/fac/incompletes.html>. If you meet the criteria, you must contact the course coordinator before finals week to be considered for an I. An I only allows you to make up your incomplete work, not redo your work.

Grading

Xronos Homework (3 drops): 5%

Lecture Quizzes (3 drops): 5%

Discussion Quizzes (2 drops): 10%

Project: 10%

Midterm Exam Average (3 mid-term exams): 45%

Final Exam: 25%

Your final grade will rounded to the nearest hundredth and a letter grade will be given using the following grading scale:

Grading Scale

90.00-100 A	87.00-89.99 A-	84.00-86.99 B+	80.00-83.99 B
77.00-79.99 B-	74.00-76.99 C+	67.00-73.99 C	64.00-66.99 C-*
60.00-63.99 D+	57.00-59.99 D	54.00-56.99 D-	0-53.99 E

***Note** A grade of C- DOES NOT give Gordon Rule or General Education credit!

For those take the S-U option: 67.00-100 S 0.00-66.99 U

Approval of the S-U option must be obtained from your instructor. The deadline for filing an application with the Registrar and further restrictions on the S-U option are given in the Undergraduate Catalog.

For a complete explanation of current policies for assigning grade points, refer to the UF undergraduate catalog:

catalog.ufl.edu/ugrad/regulations/info/grades.aspx

NOTE: We will not review disputed points at the end of the semester. All grade concerns must be settled within one week of the return of the paper.

Extra Credit

Each midterm exam has 105 points on it but is taken out of 100 points. The final exam has 110 points on it but is taken out of 100 points. Because of this, inherent in each exam are bonus points. You will also receive 1 point on your Exam 1 score if you post your picture to Canvas by the deadline. There are also extra credit discussion boards worth two points each. There is one of these boards for each exam period. I will discuss discussion boards more in class.

Free Help

In addition to attending your discussion section regularly and visiting your discussion leader, lecture, or the course coordinator, during their office hours, the following aids are available.

- The Math Help Center in Little 215 is open for drop-in assistance with homework Monday through Friday from 9:30 to 4:00. It is staffed by mathematics graduate students and undergraduate assistants. Please note that this space is not designed for intense one-on-one tutoring, but rather as a resource for quick questions and explanations. You should not expect the staff to help you if you have not at least begun your homework and have specific questions. Moreover, they absolutely will not assist you with quizzes or any other such work.
- The Teaching Center Math Lab, located in 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 tutors with whom you feel most comfortable. You can also request free one-on-one tutoring.

The math lab also offers a more structured tutoring program for MAC 2311, called **supplemental instruction**. A tutor, assigned specifically to MAC 2311, provides weekly help sessions. More details will be provided in lecture.

In addition, the Broward teaching center tutors hold reviews on the evenings before each exam. They also provide videos of review and sample test problems. Check the webpage, teachingcenter.ufl.edu, for a map of the location, tutoring hours, and test review dates and locations. **All students are encouraged to use the teaching center.**

- Office of Academic Support offers free one-on-one and small group tutoring sessions to an UF students. See <http://oas.aa.ufl.edu/tutoring.aspx> for details.
- Textbooks and solutions manuals are located at reserve desks at Marston Science Library.
- Private Tutors: If after availing yourself of these aids, you feel you need more help, you may obtain a list of qualified tutors for hire at www.math.ufl.edu. Search "tutors".
- The Counseling Center has some informative information on developing math confidence. Go to <http://www.counseling.ufl.edu/cwc/DevelopingMath-Confidence.aspx> for information on math confidence and information on joining the Academic Confidence Group.

Calculators

Calculators are **NOT** permitted on exams and discussion assignments. Please avoid using a calculator on homework as it will not help you prepare for the exams.

Cell Phones

Cell phones must be turned off (not on vibrate) before coming to class. Use (defined as having one physically in your hand) of a cell phone during a test or quiz will be considered contact with another person and will be viewed as a form of academic dishonesty because I cannot be assured in such a circumstance that you have not taken a picture of the test/quiz or sent a text message to someone. As a result, **using a cell phone during a test or quiz for any reason will result in an automatic grade of zero and possible disciplinary action.** Wait until after you have left the room and are finished with the test/quiz to use it.

Other distractions

While attending lecture, please ensure that your cellphone is on silent and that alarms are turned off. Please be respectful and attentive during lecture. Do not disturb those around you with excessive talking. You will be asked to leave the classroom if you are repeatedly disruptive during class.

Students with Learning Disabilities

Students requesting class and exam accommodations must first register with the Dean of Students Office Disability Resource Center (DRC), www.dso.ufl.edu/drc/. That office will provide a documentation letter via email to the course coordinator. This must be done as early as possible in the semester, **at least one week before the first exam**, so there is adequate time to make proper accommodations.

COVID Policy

In response to COVID-19, the following recommendations are in place to maintain your learning environment, to enhance the safety of our in-classroom interactions, and to further the health and safety of ourselves, our neighbors, and our loved ones.

- If you are not vaccinated, get vaccinated. Vaccines are readily available and have been demonstrated to be safe and effective against the COVID-19 virus. Visit one.ufl.edu for screening / testing and vaccination opportunities.
- If you are sick, stay home. Please call your primary care provider if you are ill and need immediate care or the UF Student Health Care Center at 352-392-1161 to be evaluated.
- Course materials will be provided to you with an excused absence, and you will be given a reasonable amount of time to make up work.

Diversity and Inclusion

The Mathematics Department is committed to diversity and inclusion of all students. We acknowledge, respect, and value the diverse nature, background and perspective of students and believe that it furthers academic achievements. It is our intent to present materials and activities that are respectful of diversity: race, color, creed, gender, gender identity, sexual orientation, age, religious status, national origin, ethnicity, disability, socioeconomic status, and any other distinguishing qualities.

Academic Honesty Guidelines

All students are required to abide by the Academic Honesty Guidelines which have been accepted by the University. The academic community of students and faculty at the University of Florida strives to develop, sustain and protect an environment of honesty, trust, and respect. Students are expected to pursue knowledge with integrity. Exhibiting honesty in academic pursuits and reporting violations of the Academic Honesty Guidelines will encourage others to act with integrity. Violations of the Academic Honesty Guidelines shall result in judicial action and a student being subject to the sanctions in paragraph XIV of the Student Code of Conduct. The conduct set forth hereinafter constitutes a violation of the Academic Honesty Guidelines (University of Florida Rule 6C1-4.017).

The Mathematics Department expects you to follow the Student Honor Code. We are bound by university policy to report any instance of suspected cheating to the proper authorities. You may find the Student Honor Code and read more about student rights and responsibilities concerning academic honesty at the link www.dso.ufl.edu/sccr/.

In-Class Recording

Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.

A “class lecture” is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session.

Publication without permission of the instructor is prohibited. To “publish” means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium, to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student

Evaluations

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

Important Fall 2023 Academic Dates and Deadlines

Classes Begin	Thursday, August 22
Drop/Add	Wednesday, August 22 - 23, 26 - 28
Withdrawal deadline (full refund)	Wednesday, August 28
Withdrawal deadline (25% refund)	Friday, September 13
Drop deadline (no refund)	Friday, November 22
Classes end	Wednesday, December 4

Holidays (no classes)

Labor Day	September 2
Homecoming	October 18 - 19
Veteran’s Day	November 11
Thanksgiving Break	November 25 - 30

Note: Information in this syllabus is subject to change. Any changes will be clearly announced in class or through e-mail.

Tentative Schedule

Week	Monday	Tuesday	Wednesday	Thursday	Friday
1	August 19	August 20	August 21	August 22 No Class	August 23 L1 & L2 - Precalc Review
Due					
2	August 26 L2 & L3 - Precalc Review	August 27 Meet Your TA	August 28 L3 & L4 - Precalc Review	August 29 Meet Your TA	August 30 L5 - Limits Introduction
Due		Quiz 1: L1-L2		Quiz 1: L1-L2	
3	September 2 Holiday	September 3	September 4 L6 - Limits Continued	September 5	September 6 L7 - Continuity
Due		Quiz 2: L3-L5		Quiz 2: L3-L5	
4	September 9 L8 - Indeterminate Forms	September 10	September 11 L9 - The Derivative	September 12	September 13 L10 - The Derivatives as a function
Due		Quiz 3: L6-L7		Quiz 3: L6-L7	
5	September 16 Review for Exam 1	September 17 Exam 1 (L1-L10) TA Exam Review	September 18 L11 - Power and Exponential Rules	September 19	September 20 L12 - Product and Quotient Rule
Due		Quiz 4: Attendance		Quiz 4: Attendance	
6	September 23 L13 - Rates of Change	September 24	September 25 L14 - Derivatives of Trigonometric Functions	September 26	September 27 L15 - Chain Rule pt. 1
Due		Quiz 5: L11 - L12		Quiz 5: L11-L12	
7	September 30 L15 - Chain Rule pt. 2	October 13	October 2 L16 - Implicit Differentiation pt. 1	October 3	October 4 L16 - Implicit Differentiation pt. 1
Due		Quiz 6 L13-L15		Quiz 6 L13-L15	
8	October 7 L17 - Logarithmic Differentiation	October 8	October 9 L18 -Related Rates pt. 1	October 10	October 11 L18 - Related Rates pt. 2
Due		Quiz 7: L15 - L16		Quiz 7: L15-16	

Week	Monday	Tuesday	Wednesday	Thursday	Friday
9	October 14 Review for Exam 2	October 15 TA Exam Review	October 16 Review for Exam 2 Exam 2 (L11 - L18)	October 17	October 18 Holiday
Due		Quiz 8: Attendance Quiz		Quiz 8: Attendance Quiz	
10	October 21 L19 - Linear Approximations and Differentials	October 22 TA Review Only	October 23 L20 - Extreme Values, Fermat's Theorem, Critical Points	October 24 TA Review Only	October 25 L21 - Rolle's Theorem and MVT
Due		No Quiz		No Quiz	
11	October 28 L22 - First Derivative Test	October 29	October 30 L23 - Concavity and Second Derivative Test	October 31	November 1 L24 - L'Hopital's Rule pt. 1
Due		Quiz 9: L20 - L21		Quiz 9: L20 - L21	
12	November 4 L24 - L'Hopital's Rule pt. 2	November 5	November 6 L25 - Curve Sketching	November 7	November 8 L26 - Applied Optimization
Due		Quiz 10: L23-L24		Quiz 10: L23 - L24	
13	November 11 Holiday	November 12 Exam 3 (L19-26) TA Exam Review	November 13 L27 - Antiderivatives	November 14	November 15 L28 - Areas and Riemann Sums
Due		Quiz 11: Attendance Quiz		Quiz 11: Attendance Quiz	
14	November 18 L29 - The Definite integral	November 19	November 20 L30 - The Fundamental Theorem of Calculus	November 21	November 22 L31 - Net Change
Due		Quiz 12: L27-L28		Quiz 12: L27-L28	
15	November 25 Thanksgiving Break	November 26 Thanksgiving Break	November 27 Thanksgiving Break	November 28 Thanksgiving Break	November 29 Thanksgiving Break
Due		No Quiz		No Quiz	
16	December 2 L32 - The Substitution Method for Integrals	December 3 Review with TA for final	December 4 Review for Final Exam	December 5 Reading Day - No Classes	December 6 Reading Day - No Classes
Due		No Quiz		No Quiz	
Final Exam - TBD (Cumulative L1-L32)					