

# ANALYTIC GEOMETRY AND CALCULUS I

MAC 2311

Summer C 2024

---

<b>Instructor:</b> Brendan Williams	<b>Time:</b> M T R F period 4 (12:30–1:45)
<b>Email:</b> <a href="mailto:brendan.williams@ufl.edu">brendan.williams@ufl.edu</a>	<b>Place:</b> Little Hall (LIT) 233

---

**Course Pages:** The course page and all course material is on the course Canvas page.

**Office Hours:** Monday and Thursday Period 5 (2:00–3:15 PM) in LIT 473.

**Main References:** There are no required textbooks for this course. We will make use of a free online textbook available at [Openstax Calculus Volume 1](#). 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. The following text may be helpful, but is **not** required.

- Stewart, J. *Calculus: Early Transcendentals*, 8th Ed. (or earlier edition)

**Course Goals:** This course will introduce students to the ideas of limit, derivative and integral for functions of a single variable. Upon completion, students will be able to understand the theory as well as applications. The course will prepare students for MAC2312.

**Prerequisites:** Appropriate score on the ALEKS placement assessment, or MAC 1147 (or its equivalent, both MAC 1140 and MAC 1114) with a C (2.0) or better.

**Grading Policy:** Homework and quizzes (30%), Midterm 1 (20%), Midterm 2 (20%), Final (30%).

## Important Dates:

Classes Begin .....	May 15
Exam #1 .....	TBA
Exam #2 .....	TBA
Exam #3 .....	TBA
Exam #4 .....	TBA
Classes End .....	August 11

**Breaks:** Classes will not be held for the following dates:

Memorial Day .....	May 29
Juneteenth .....	June 19
Summer Break .....	June 26–30
Independence Day .....	July 4

**Course Description:** MAC 2311 is the first in the three-semester sequence MAC 2311, MAC 2312, and MAC 2313 covering basic calculus. 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.

MAC 2311 begins with a short review of precalculus topics. You should already be competent in working this material. We strongly recommend that students who are having difficulty with the precalculus review material consider first taking MAC 1147, a four credit precalculus course reviewing essential calculus skills.

A minimum grade of C (not C-) in MAC 2311 satisfies the four credits of general education requirement and also satisfies the pure math portion of the state Writing/Math requirement.

**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/](http://www.dso.ufl.edu/sccr/).

In addition, we remind you that lectures given in this class are the property of the University/faculty member and may not be taped without prior permission from the instructor 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.

**Discussion Sections:** Discussion sections meet once a week on Thursday. 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 assessment of your skills 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.

**E-Learning Canvas:** E-learning canvas, a UF course management system, is located at [elearning.ufl.edu](http://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.

**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/>.

**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/](http://www.dso.ufl.edu/drc/). That office will provide a documentation letter via email to your instructor. 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.

**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 in-person sections of this course meet for in-person 75-minute lectures in Little Hall 233 Mondays, Tuesdays, Thursdays and Fridays from 12:30 PM - 1:45 PM. Along with this, you will meet with your discussion leader once a week 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.

**Incompletes:** 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/incomplete>. If you meet the criteria, you must see your instructor before finals week to be considered for an I. An I only allows you to make up your incomplete work, not redo your work.

**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.
- Office hours are a great way to get help. Consider attending your instructor or TA's office hours. If there are multiple TA's in a class, you can go to any TA's office hours. You can find these office hours listed on the canvas home page. The 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](http://teachingcenter.ufl.edu), for a map of the location, tutoring hours, and test review dates and locations. Additional practice exams and video tutorials may be found here: <https://academicresources.clas.ufl.edu/vsi/>. All students are encouraged to use the teaching center.
- Office of Academic Support offers free one-on-one and small group tutoring sessions to 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](http://www.math.ufl.edu). Search “tutors”.
- The Counseling Center provides a variety of resources for mental health and well-being to students as well. Go to <https://counseling.ufl.edu/>.

**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, all infractions will be reported to the Dean of Students Office. Wait until after you have left the room and are finished with the test/quiz to use it.

**Lecture Quizzes:** Immediately after you finish watching the lecture video, 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.

**Exam Policy:** Please come to the exams prepared with pencils/mechanical pencils and your ID (UFID or other government issue ID). All exams will take place during the regular class times. 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, leaves 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.

I will not reconcile Xronos technical difficulties and/or accept late Xronos work after it is due, so please check your gradebook periodically for issues. This warning includes grading discrepancies at the very end of the semester.

**Make-Up Policy:** All make-up work must be arranged with the course instructor.

- **Exam Conflicts - UF during Term Assembly Exam Policy** ([catalog.ufl.edu/ugrad/current/regulations/info/exams.aspx](http://catalog.ufl.edu/ugrad/current/regulations/info/exams.aspx)): “Exams may be held Monday - Friday from 8:20-10:10PM (periods E2-E3) for the fall and spring 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. If two exams are scheduled at the same time, assembly exams take priority over time-of-class exams. When two assembly exams conflict, the higher course number takes priority. Instructors giving make-up exams will make the necessary adjustments.” If MAC 2311 is the lower course number, students must inform their instructor in person 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 your instructor at least ONE WEEK PRIOR to the event. You must present documentation of a UF sponsored event. If illness or other extenuating circumstances cause you to miss an exam, contact your instructor (no later than 24 hours after the exam) by email. Then, as soon as possible after you return to campus, bring the appropriate documentation to him in Little Hall during office hours. You will be allowed to sign up to take a makeup exam at the end of the semester on TBD.
- **Make-up Xronos HW:** There are no make-ups.
- **Make-up class participation points:** There are no make-ups.

#### Grade Distribution:

- Xronos Homework: 10%
- Discussion Quizzes: 10%
- Lecture Quizzes: 10%
- Midterm Exam Average (4 mid-term exams): 70%

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

≥90 A	87–89.99 A-	84–86.99 B+	80–83.99 B
77–79.99 B-	74–76.99 C+	67–73.99 C	64–66.99 C-
60–63.99 D+	57–59.99 D	54–56.99 D-	<54 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](http://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.

Please refrain from reaching out at the end of the semester to ask for your grade to be rounded up or to inquire about extra assignments or opportunities. There are hard cutoffs and deadlines for all assignments for a reason. Given the volume of students in this course, it is not feasible to give out extra work/assignments once the semester has ended.

**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.

**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.

**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/](http://www.dso.ufl.edu/sccr/).

**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/>.