

MAC1147: Precalculus Algebra and Trigonometry

Summer B 2021

Instructor Information

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Office Hours: MW Period 4 (12:30 - 1:45)

Teaching Assistant (TA) Information

Name: Ashley Bonner
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Office Hours: TBA

Course Meeting Time

Lecture: MTWRF Period 3 (11:00 - 12:15) in Little 201
Discussion Class:
Section 4F35 — TR Period 2 (9:30 - 10:45) in Little 221
Section 4764 — TR Period 4 (12:30 - 1:45) in Little 221

Course Description

College algebra, functions, coordinate geometry, exponential and logarithmic functions, and trigonometry. This **fast-paced** course is designed as a review of algebra and trigonometry to prepare the student for calculus. If you feel this course will be too fast paced, you can take it over two semesters by taking MAC1140: Precalculus Algebra and then taking MAC1114: Trigonometry. You have until the end of add/drop to change your schedule, which is **Tuesday, June 29, 5:00 pm.**

Prerequisites: This course assumes prior knowledge of intermediate algebra (Algebra 2) and trigonometry. Students should be able to do arithmetic without a calculator. MAC1147 begins with a short review of high school algebra topics (first week and a half). You should already be competent in working this material. A minimum grade of C (not C-) in MAC1147 satisfies four hours of the general education requirement and the pure math portion of the state Writing/Math requirement. Note: A student can receive at most four credits for taking both MAC1147, and MAC1140 or MAC1114, and at most five credit hours for taking MAC1147, MAC1140, and MAC1114. Students who successfully complete this course (C or better) can advance directly to MAC2311: Analytic Geometry and Calculus I (for engineers and scientists), or into MAC2233: Survey of Calculus I (for business majors). If your goal is to take MAC2233, then you might want to talk to your advisor about taking MAC1140: Precalculus Algebra, instead of this course (which includes trigonometry). There is no trigonometry requirement for MAC2233.

Students taking this course for general education credit or the pure math portion of the Math requirement, and who do not need precalculus for their major or as preparation for calculus, might consider taking MGF1106, MGF1107, or MAC1105. For more information on math courses and math advisors go to <http://www.math.ufl.edu/>.

Textbook, Calculators & Software

Textbook: *Precalculus*, by Jay Abramson.

You can access our free online textbook at <https://openstax.org/details/books/prec calculus>. OpenStax is a nonprofit ed-tech initiative based at Rice University. Since 2012, OpenStax has created peer-reviewed, openly licensed textbooks. A pdf copy of the textbook is also available on Canvas on the front page and under the Modules tab for your convenience.

Calculators & Software: **No calculators are allowed on exams.** However, a graphics calculator and [WolframAlpha](#) are useful as a study and learning tool when used appropriately, but they are not essential.

Class Attendance and Participation

You are required to attend lectures and discussion classes. During lectures, we will develop the theory and give some examples. Discussion classes are designed so that you can see further examples, ask about any clarification regarding a concept covered in lectures, and ask help on homework problems. You are encouraged to participate in class, especially during discussion classes.

Note that the university recognizes the right of the individual professor to make attendance mandatory. After due warning, professors can prohibit further attendance and subsequently assign a failing grade for excessive absences.

Written Homework

Written homework will be assigned for each day of lecture. You are required to work on all problems assigned, however, you will turn in only a select few for grading. You can click on the Assignments tab on Canvas to access homework. The due date for each homework will be 2-3 business days from the day it is assigned. Homework will be collected at the beginning of lectures or discussion classes. There is a 95% penalty for late homework, so you might as well not turn in late homework. The lowest homework score will be dropped.

The only way to learn Mathematics is to do Mathematics! It is essential for students to complete all of the homework assignments. The purpose of homework is for you to practice the concepts covered in lecture. Completing all the homework problems is the best way to practice and prepare for quizzes and exams.

Finally, you are encouraged to work with others on homework problems. Mathematics is a social activity! However, do not simply use others to do your work but rather use others to help work through and engage in the concepts. Any final write up of a homework problem should be done alone. If you copy solutions from each other, you will receive a failing grade for the entire course and you will be reported according to the [Orange Book](#).

Discussion Quizzes

During the last 15-20 minutes of each discussion class, a discussion quiz will be given. This a chance for you to see if you are mastering the course material. Lowest two scores will be dropped.

Exams

There are two exams and a final exam. You are expected to be present, seated, and ready to take the exam before the exam begins. Exam #1 is scheduled for the end of the second week, **Friday, July 9, 7:00 – 8:15 pm**. Exam # 2 is scheduled for the end of the fourth week, **Friday, July 23, 7:00 – 8:15 pm**. Both exams will be given in the Carleton Auditorium. The **cumulative** final exam will be given on the last day of classes, **August 6**, during our regular lecture period in the same classroom. No exam scores will be dropped.

You are not permitted to use any outside materials, resources, or electronic devices (including but not limited to mobile phones, smartwatches, calculators, etc.) on the exams. Any violation of this policy is a violation of the university’s Student Honor Code.

Academic Honesty

The official Student Honor Code and Student Conduct Code can be found at <https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>. If you have never read through those, then you should do so now. In particular, there is the Honor Pledge:

We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity by abiding by the Student Honor Code. On all work submitted for credit by Students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.”

Any dishonorable activities should be reported immediately. Any student caught cheating will automatically fail the course and will be subject to additional honor court penalties. Students are expected to do their own work unless otherwise specified. If you have any doubt, you should ask for clarification before you commit a possible violation.

Grading

The course grade is determined by the following components:

Written Homework	15%
Discussion Quizzes	20%
Exam #1	20%
Exam #2	20%
Final Exam	25%

Grade Scale

Final letter grades will be assigned according to the following scale:

A	A-	B+	B	B-	C+
90.00 – 100	87.00 – 89.99	83.00 – 86.99	80.00 – 82.99	77.00 – 79.99	73.00 – 76.99

C	C-	D+	D	D-	F
70.00 - 72.99	67.00 – 69.99	63.00 – 66.99	60.00 – 62.99	57.00 – 59.99	0.00 – 56.99

For students who take the S/U option:

S	U
70.00 – 100	0.00 – 69.99

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 summer B terms, the deadline is Wednesday of the second week of classes, which is **June 7**. For a complete explanation of current policies for assigning grade points, refer to the UF undergraduate catalog at <https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>.

Students with Disabilities

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the Disability Resource Center (DRC) by visiting <https://disability.ufl.edu/students/get-started/>. It is important for students to share their accommodation letters with their instructor and TA, and discuss their access needs as early as possible in the semester.

Make up Policy

In general, acceptable reasons for absence from or failure to participate in class include illness, serious family emergencies, special curricular requirements (e.g., judging trips, field trips, professional conferences), military obligation, severe weather conditions, religious holidays, and participation in official university activities such as music performances, athletic competition or debate. Absences from class for court-imposed legal obligations (e.g., jury duty or subpoena) are also excused. Except for religious holidays, all other absences require written documentation for the missed work to be made up later. Written documentation should be provided no more than 24 hours after the due date or the completion of the assessment. All make up assessments will be given during the last week of classes.

Religious Holidays

At the University of Florida, students and faculty work together to allow students the opportunity

to observe the holy days of their faith. A student should inform the faculty member of the religious observances of their faith that will conflict with class attendance, with tests or examinations, or with other class activities prior to the class or occurrence of that test or activity. The faculty member is then obligated to accommodate that particular student's religious observances. Because students represent a myriad of cultures and many faiths, the University of Florida is not able to assure that scheduled academic activities do not conflict with the holy days of all religious groups. Accordingly, individual students should make their need for an excused absence known in advance of the scheduled activities.

Help & Tips for Success

Be proactive about your success in the course! If you need help, there are many resources available to help you. Your primary sources for help are your instructor and TA. If you are struggling, attend their office hours or send them a message through Canvas. Do not wait to bring issues, course related or otherwise, to the attention of your instructor or TA. If you cannot attend office hours, send them a message through Canvas to try to make other arrangements.

If you are seeking help on a specific problem, you should first have attempted the problem yourself. If you are seeking help online, you can take a snapshot of your work and attach that to a message (to your instructor or TA) in Canvas requesting help. **Your instructor and TA are glad to help.**

In addition to your instructor and TA, the following third-party aids are available for FREE:

- The Teaching Center, located at SE Broward Hall; see <https://teachingcenter.ufl.edu/>.
Note: Any exam prep or other materials should not be considered a good indicator of what the exams in this online course are like. This applies equally to all third-party note or review services.
- The Office of Academic Support; see <https://oas.aa.ufl.edu/currentstudents/tutoring/>.

The Mathematics Department maintains a list of qualified private tutors for hire. Go to <https://math.ufl.edu/> and search for "tutors" to find the list.

Success in MAC1147 depends largely on your attitude and effort. Keeping up with the lectures is critical. Most students find it beneficial to work daily on the material as opposed to saving it all for one day. It is not effective to sit and copy notes without following the thought processes involved in the lecture.

Be aware that much of the learning of mathematics at the university level takes place **outside of the classroom**. You need to spend time reviewing the concepts of each lecture before you attempt homework problems. It is also important to spend some time looking over the textbook sections to be covered in the next lecture to become familiar with the vocabulary and main ideas beforehand so that you will be better able to grasp the material presented in the videos. You should expect to spend **at least 12 hours per week** outside of class working on this course.

If you do not complete the assignments, then you are not prepared enough to do well on exams. Note that if you find you need more practice beyond the existing assignments, you can use the unassigned problems in the textbook, in which case please feel free to ask your instructor or TA

questions about any of those problems.

UF's Counseling & Wellness Center offers counseling support in case of issues with academics, adjusting to the stress of college life, or personal challenges. If at any point during the semester, you feel overwhelmed with your class work, feel thoughts of depression/suicide, experience sexual assault/rape, experience problems with substance abuse or relationship abuse, or have any other struggles with physical/mental health, ***please seek help!*** UF's Counseling & Wellness Center is a resource offering assistance with any issue you might have - both individually and through group sessions. There is ***never*** any shame in seeking help. If you or someone you know is struggling with any of these issues, speak out! Counseling & Wellness Center website can be found at <http://www.counseling.ufl.edu/cwc/>, is located at 3190 Radio Rd, Gainesville, FL 32611, and can be contacted at (352) 392-1575. In a crisis consider calling:

- Alachua County Crisis Center: 352-264-6789
- Alachua County Rumor Control: 352-264-6557
- National Suicide Hotline: 1-800-SUICIDE (7842433)
- National Suicide Prevention Lifeline: 1-800-273-TALK (8255)

Important Dates

Please see the Undergraduate Catalog 2021-2022 Dates and Deadlines at <https://catalog.ufl.edu/UGRD/previous-catalogs/2020-2021/UGRD/dates-deadlines/2021-2022/#summerb21text>.

Respect Policy

I respect your time:

- I will come prepared to help you understand the course material and prepare you for quizzes/exams.
- Communication is key: I cannot help you if I do not know what is going on.
- I am here to help you, this is your time, so let me know what I can do to help you succeed.
- If there is something that you would like me to do differently, please, let me know. I am happy to work with you to make class the best it can be.

Respect my time:

- Be on time to class.
- Pay attention when I am talking to you.
- Come to class prepared by doing the work and going to office hours when you need help.

Respect each other:

- Do not be disruptive. If you need to take a call or text someone, take it outside.
- Work with each other to find solutions. You learn more by helping each other.

- Allow one another to make mistakes. This is an important part of the learning process.
- Use respectful language when talking with one another.

Incomplete Grades

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 Math Department policy on <https://math.ufl.edu/department/incomplete-grades/>. If you meet the criteria, you must notify your instructor before finals week to be considered for an I. A grade of I only allows you to make up your incomplete work, not redo your work.

Instructor 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/>.