

Georgia Institute of Technology

MATH 1712A - Survey of Calculus - Summer 2019

SYLLABUS

Course Info

Welcome to Survey of Calculus! This course provides an overview of the key concepts needed for an understanding of calculus. Topics covered include: functions, the derivative, applications of the derivative, techniques of differentiation, integration, applications of integration to probability and statistics, and multidimensional calculus.

Please note: Items on the syllabus are subject to change. Any changes to the syllabus will be relayed to the students in lecture and through [Canvas](#). [Canvas](#) also contains links to MyMathLab and Piazza for easy access.

Prerequisites : Math SAT score of 550 or higher or Math SAT Section Score (new SAT) of 570 or ACT 24 or ACT equivalent 550, or MATH 1113 Pre-calculus.

Course Text : Calculus and its Applications, 11th edition - Bittinger, Ellenbogen, Surgent.

LECTURES

Time & Location : MWF 11.00-12.15 at Skiles 371

Instructor : Christina Giannitsi

email : cgiannitsi@gatech.edu

Office Hours : Mondays 1-2 & Thursdays 2-3 pm at Clough 250

RECITATIONS

Section : A

Time & Location : TuTh 12.30-13.45 at Skiles 371

Teaching Assistant : Jack Olinde

email : jolinde@gatech.edu

Office Hours : Tuesdays 3-4 pm at Clough 280

Course Websites : **Canvas** <https://canvas.gatech.edu/>
 MyMathLab <https://www.mymathlab.com>.
 Piazza <https://piazza.com/class/jv87n3eigju1iq>

MyMathLab

We will be utilizing **MyMathLab** (MML) for homework throughout the semester. You can register for our MyMathLab class through Canvas. If you are unable to do that send me an email as soon as possible, you need access to MML in order to complete your homework.

If you do not already have an account on MML, you will need to sign up. When signing up for MyMathLab, it will be immensely helpful (for grading purposes) if you set your STUDENT ID to your USERID for the GT system (i.e., your buzzport USERID, as in “gburdell3”, etc).

MyMathLab comes with an entire electronic version of the textbook; it is your choice if you would also like to own the textbook in print. You may purchase a MyMathLab code either from the bookstore or on-line while registering at <https://www.mymathlab.com>. If you prefer to own a hardcopy of the text, the bookstore offers packages of MyMathLab combined with the textbook that is less expensive than purchasing the text and code separately.

Course Requirements and Grading

Homework : Homework will be assigned on-line and will consist of exercise problems on MML. You are expected to understand all homework problems for the tests. Exercises on MML will be due on Thursdays at 11:59 PM (except during class recesses or as announced in class). Late assignments are NOT allowed.

Participation : Attending class is important. Class attendance and participation will be recorded every time the class meets and will count towards your final grade (up to 3%). Please note that this is part of your final grade and NOT extra credit. The purpose of participation activities is to encourage participation and active learning, gauge attendance, develop community among the students, offer feedback to the instructor on course activities, and help students better prepare for quizzes and midterms.

Points	How to get them
1	Attend the lecture
2	Complete the participation activity of the day. Participation activities will be graded for completion, not accuracy, thus partial credit will not be awarded.

Attendance and participation will not be recorded during the first week of classes and the two final instructional days.

Extra credit : You will have the chance to earn extra credit by attending recitation. You can get a maximum of 2 points as extra credit, distributed as follows:

Points	How to get them
1	Attend the recitation
1	Put effort into participating in recitation (work on the problems, ask questions to your TA, solve problems on the board, etc.)

Participation will not be recorded during the first week of classes and the two final instructional days.

Quizzes : A weekly quiz will be given each Thursday beginning on the second week of classes, except on test weeks. Quizzes will be administered during the last 15-20 minutes of recitation, and will be based on reading material, topics covered in lecture and the homework assignments due that week. The lowest quiz grade will be dropped.

No crib-sheets, books, notes, calculators, cell phones, or other electronic devices are allowed during the quizzes.

Midterm Exams : We will have three 50-minute tests during the term. Midterms will NOT last for the entire class period unless you are specifically told so. Tests will be administered on the following days:

- Test 1: Tuesday, June 4th. (Chapters R &1)
- Test 2: Tuesday, June 24th. (Chapters 2 &3)
- Test 3: Tuesday, July 16th. (Chapters 4,5 &6)

The material covered in each exam as specified above is an estimate. The exact material for each midterm will be announced by the instructor in class and on Canvas about a week before the exam takes place.

No books, notes, calculators, cell phones, or other electronic devices are allowed during the tests.

You are allowed a crib-sheet for the midterms, one letter sized page, single sided.

Final Exam : The final exam will cover all course materials and will be administered on Monday, July 29 from 11:20 AM - 2:10 PM. All students must take the final examination.

You are allowed a crib-sheet for the final, one letter sized page, double sided.

Grades : Letter grades will be determined based on the following intervals. You will be guaranteed a minimum of the following scale:

A: 90% and higher, **B:** [80%, 90%), **C:** [70%, 80%), **D:** [60%, 70%), **F:** [0%, 60%).

Any changes to these intervals would only be made after the final exam at the instructor's discretion and students should not expect any changes to the intervals. The cutoffs could only be lowered.

Your final grade will be computed as follows:

Participation	3 %
Homework	7%
Quizzes (best 5 out of 6)	20 %
Two Highest Midterms	30 %
Lowest Midterm	10 %
Final	30 %

Class Policies

Attendance : You are expected to come prepared and actively participate in every lecture session. In the event of an absence, you are responsible for all missed materials, assignments, and any additional announcements or schedule changes given in class. Class disruptions of ANY kind will NOT be tolerated and may result in your removal from the classroom and/or loss of participation points for that day. Please show courtesy to your fellow classmates and instructor by adhering to the following class rules:

- Turn off all laptops, cell phones, i-pads and other electronic devices, unless you have a documented need to use such devices for note-taking, during class.

- Come to class on time and stay for the entire class period.
- Except during group work, please refrain from conversing with your fellow students.
- Put away any reading materials unrelated to the course.

Also your TA will expect that you have attended lecture, reviewed the material covered in the lecture, and attempted the assigned homework before class, so they will not lecture on the course material. Instead, you will spend the recitation time working on practice problems.

Academic Dishonesty : All students are expected to comply with the [GeorgiaTech Honor Code](http://www.catalog.gatech.edu/policies/honor-code/) (the honor code can be found at <http://www.catalog.gatech.edu/policies/honor-code/> or <http://www.catalog.gatech.edu/rules/18/>). Any evidence of cheating or other violations of the Georgia Tech Honor Code will be submitted directly to the Dean of Students. Cheating includes, but is not limited to:

- Using a calculator, books, or any form of notes on quizzes or tests.
- Copying directly from any source, including friends, classmates, tutors, internet sources (including Wolfram Alpha), or a solutions manual.
- Allowing another person to copy your work.
- Taking a test or quiz in someone else's name, or having someone else take a test or quiz in your name.
- Asking for a regrade of a paper that has been altered from its original form.
- Using someone else's clicker to gain attendance points or to take quizzes or tests for them, or asking someone else to use your clicker for any graded or attendance submission.

Regrading of Papers : If a problem on your test or quiz has been graded in error, you must submit a regrade request to the instructor via email, no more than one week after the papers have been returned in class. You will not have to hand back your paper (unless you are specifically told to do so) since quizzes and midterms will be scanned before they are returned to you. Should you wish to have your paper regraded, do not change or add to the work on your paper! If you must write on your returned paper, be sure to write in a different color ink and clearly indicate what you have added. A regrade request can only be submitted if you have done something CORRECT on your test that has been marked as incorrect. You MUST check your answers with the solutions BEFORE submitting such a request.

Make-Ups : In an emergency situation, a make-up quiz or test will be allowed if the instructor and/or the TA is notified prior to the exam and provided with a reasonable, written confirmation of your absence. Any make-ups must be completed before the corresponding quiz or test has been graded and returned

to other students. If you miss a test due to a university-sponsored event or athletics, please provide the instructor and/or the TA with the official documentation in advance.

Students with Disabilities and/or in need of Special Accommodations : If you are a student with learning needs that require special accommodation, contact the Office of Disability Services at (404) 894-2563 or <http://disabilityservices.gatech.edu/>, as soon as possible, to make an appointment to discuss your special needs and to obtain an accommodations letter. Please also email the instructor as soon as possible in order to set up a time to discuss your learning needs.

Calculators : While you may need a scientific calculator for help with some of the homework problems, the use of calculators is NOT ALLOWED on in-class assessments.

Announcements : The class pages will often be updated with class information and materials. You are responsible for obtaining any announcements or materials posted on [MyMathLab](#) or [Canvas](#)

Additional Help : Asking questions is a key to success! Please stop by my office hours whenever you have questions. You can also ask your questions through [Piazza](#).

Free help is also available Monday-Thursday afternoons in the Math Lab, located on the second floor of Clough Undergraduate Learning Commons (CULC).

Important dates throughout the term

May 13th: First day of classes

May 17th: End of Registration

May 27th: Memorial Day

June 29th: Withdrawal Deadline

July 4th & 5th: Independence Day Break

July 22nd & 23rd: Final Instructional Days

July 29th: Final Exam

Tentative Course Schedule and Assessments

Date		Material	Exams
Week 1	(13 May)	R1-6	-
Week 2	(20 May)	1.1-5	Quiz 1
Week 3	(27 May)	1.6-8, 2.1-2	Quiz 2
Week 4	(3 June)	2.3-5	Midterm 1
Week 5	(10 June)	2.6-8, 3.1-2	Quiz 3
Week 6	(17 June)	3.3-6, 4.1	Quiz 4
Week 7	(24 June)	4.2-3	Midterm 2
Week 8	(1 July)	4.4-7,	Quiz 5
Week 9	(8 July)	5.3, 6.1-4	Quiz 6
Week 10	(15 July)	6.5-6	Midterm 3
Week 11	(22 July)	Review	-
Finals Week	(29 July)	11.20am - 02.10pm	Final Exam

Campus Resources for Students

In your time at Georgia Tech, you may find yourself in need of support. Below you will find some resources to support you both as a student and as a person.

Academic support

- Center for Academic Success <http://success.gatech.edu>
- 1-to-1 tutoring <http://success.gatech.edu/1-1-tutoring>
- Peer-Led Undergraduate Study (PLUS) <http://success.gatech.edu/tutoring/plus>
- Academic coaching <http://success.gatech.edu/coaching>
- Residence Life's Learning Assistance Program
<https://housing.gatech.edu/learning-assistance-program>

- OMED: Educational Services <http://omed.gatech.edu/programs/academic-support>
- Communication Center <http://www.communicationcenter.gatech.edu>
- Individualized help with writing and multimedia projects / Academic advisors for your major <http://advising.gatech.edu/>

Personal support

- The Office of the Dean of Students: <http://studentlife.gatech.edu/content/services>; (404) 894-6367; Smithgall Student Services Building 2nd floor
You also may request assistance at https://gatech-advocate.symplicity.com/care_report/index.php/pid383662?
- Counseling Center: <http://counseling.gatech.edu>; (404) 894-2575; Smithgall Student Services Building 2nd floor. Services include short-term individual counseling, group counseling, couples counseling, testing and assessment, referral services, and crisis intervention. Their website also includes links to state and national resources.
Students in crisis may walk in during business hours (8am-5pm, Monday through Friday) or contact the counselor on call after hours at (404) 894-2204.
- Students' Temporary Assistance and Resources (STAR): <http://studentlife.gatech.edu/content/need-help>
Can assist with interview clothing, food, and housing needs.
- Stamps Health Services: <https://health.gatech.edu>; (404) 894-1420
- OMED: Educational Services: <http://www.omed.gatech.edu>
- Women's Resource Center: <http://www.womenscenter.gatech.edu>; (404) 385-0230
- LGBTQIA Resource Center: <http://lgbtqia.gatech.edu/>; (404) 385-2679
- Veteran's Resource Center: <http://veterans.gatech.edu/>; (404) 385-2067
- Georgia Tech Police: (404) 894-2500

Statement of Intent for Inclusivity As a member of the Georgia Tech community, I am committed to creating a learning environment in which all of my students feel safe and included. Because we are individuals with varying needs, I am reliant on your feedback to achieve this goal. To that end, I invite you to enter into dialogue with me about the things I can stop, start, and continue doing to make my classroom an environment in which every student feels valued and can engage actively in our learning community.