MATH 1501, CALCULUS I **COURSE SYLLABUS** **FALL 2013**

Instructor: Martin Short
Office: Skiles 220
Office Hours: MWF 10 am – 11 am (or by appointment)
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Teaching Assistants

- Section E1: Michael Baldwin
- Section E2: Rachel Wiseley
- Section E3: Ci Chen

Important Websites

Instructor's Web Page: http://www.math.gatech.edu/~mshort9
Georgia Tech Honor Code: http://www.honor.gatech.edu/
Course Information: https://t-square.gatech.edu/ (*required*)
Textbook/Homework Access: http://www.coursecompass.com (*required*)

General Course Information

Course Title: Calculus I
Text: *Thomas' Calculus: Early Transcendentals, 12th ed.* MyMathLab is required and contains an electronic version of the textbook. Access codes and registration information are available on our course T-square page. You can access our MyMathLab course at coursecompass.com. We will cover many of the topics in chapters 1-8 and 10.
Meeting Times:

Lectures: MWF 11 am – 12 noon, D. M. Smith 105
Recitation: TR 10 am – 11 am

- Section E1 meets in Howey (Physics) S204
- Section E2 meets in Skiles 257
- Section E3 meets in Skiles 169

Course Requirements and Grading

HOMEWORK: Homework will be assigned on-line and will consist of exercise problems on MyMathLab (see details below). You are expected to understand **all** homework problems for the exams. In order to increase the effectiveness of recitation, you should attempt the problems **before** the weekly recitation sections. Homeworks will generally be due every **TUESDAY at 11:59 pm** (see the tentative course schedule). The lowest two homework grades will be dropped. For this reason, **no late homework will ever be accepted, for any reason**. Homework will be worth **10%** of your final grade.

EXAMS: There will be four exams during the semester. Exams will take place during recitation, and are **tentatively** scheduled for **9-12**, **10-3**, **10-24**, and **11-21** (see the tentative course schedule). No books, notes, calculators, cell phones, or other electronic devices are allowed during exams. Each exam will be worth **15%** of your final grade. If you happen to miss an exam during the semester for a **legitimate, documented reason**, then I will simply ignore that exam and add its weight to the final exam (making the final exam worth 45% of your grade for 1 missed exam) when calculating your final grade.

FINAL EXAM: The final exam will cover all course materials and will be administered on **Friday, December 13, 8 am – 11 am**. All students must take the final exam to complete the course. It is worth **30%** of your overall grade.

The grading breakdown, then, is as follows:
Homeworks, lowest two scores dropped 10%
Exam1 ..... 15%
Exam 2..... 15%
Exam 3..... 15%
Exam 4..... 15%
Final Exam..... 30%

Final letter grades will be calculated on a curved scale. Therefore, I cannot (unfortunately) tell you up front precisely how final numerical course grades will translate into letter grades. However, I can state that the historical average letter grade distribution for this course (across all instructors) is approximately 21% A, 27% B, 25% C, 12% D, and 10% F. Furthermore, I will, at several key points throughout the semester, give a rough breakdown of where **current** letter grade cutoffs lie, so that you will be able to evaluate your current performance as the semester unfolds. On a related note, **progress report grades** will be assigned on **September 27**. A satisfactory grade will be assigned to all students with a current grade of C or higher (based on the above weighting of grades and whatever the curve happens to be at the time).

The learning objectives for Calculus I are as follows:

- Students will master basic Calculus concepts, such as limits, derivatives, and anti-derivatives.
- Knowledge of the above concepts will be exhibited graphically and algebraically.
- Students will be able to graph various types of functions using Calculus and algebraic properties.
- Calculus concepts will be used to solve applied physics, geometry, and optimization problems.
- Students will be able to use various integration techniques to obtain anti-derivatives without an integral table or calculator.

MyMathLab Course Information

We will be utilizing MyMathLab (MML) for homework through a joint code for the *Thomas' Calculus* text and the *Lay Linear Algebra* text. In order to register, you will need our course id:

MyMathLab Course ID: short42516

Important notes on MML:

- If you already have an account on MyMathLab using this combined textbook within the past 18 months, then you do not need to purchase a new code. Login to your account on MyMathLab, select the option to add a new course, and enter our course ID.
- If you already have a MyMathLab account that used either the Thomas or the Lay textbook in the past 18 months, but you were unable to add our course using the previous step, please send an email to gatechmath@yahoo.com and include the following information:
    1. Your First and Last Name
    2. The email address used to register for MML
    3. Your Login ID for MML
    4. Our course ID (listed above) for Fall 2013

  You should receive a reply in 48-72 hours from the Pearson support team regarding your account status. In the meantime, you can access our course using the "temporary access" option when registering. Please do not pay for a new code until you receive a reply from Pearson.
- If you do not have a MyMathLab account using the Thomas or Lay textbooks, or if your account is over 18 months old, you will need to purchase a new code for our course. Please refer to the registration document, located in the "Resources" section on T-square, to create your new account.
- When signing up for MyMathLab, it will be immensely helpful to me (for grading purposes) if you will set your STUDENT ID to your USERID for the GT system (i.e., your T-square USERID, as in "gburdell3").
- 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 http://www.mymathlab.com. If you prefer to own a hardcopy of the text, the bookstore offers packages of MyMathLab combined with a loose-leaf or hardcover version of the Thomas textbook that is less expensive than purchasing the text and code separately.

PLEASE NOTE: GEORGIA TECH HAS A SPECIAL CODE PACKAGE THAT INCLUDES BOTH TEXTBOOKS. THIS CODE CAN ONLY BE PURCHASED THROUGH THE CAMPUS BOOKSTORES OR DIRECTLY FROM PEARSON. CODES PURCHASED BY OTHER VENDORS WILL NOT WORK! Possible ISBNs for this text are: 1269416588, 1269415840, or 1256954721.

Tentative Course Schedule (subject to change!)

Date	Chapters covered/**homework** or **exam**
Monday, 8-19	1.1
Wednesday, 8-21	1.2-1.3
Friday, 8-23	1.5-1.6
Monday, 8-26	2.1-2.2
Tuesday, 8-27	**Homework 1 due**
Wednesday, 8-28	2.3-2.4
Friday, 8-30	2.4-2.5
Monday, 9-2	SCHOOL HOLIDAY
Tuesday, 9-3	**Homework 2 due**
Wednesday, 9-4	2.5-2.6
Friday, 9-6	3.1-3.2
Monday, 9-9	3.2
Tuesday, 9-10	**Homework 3 due**
Wednesday, 9-11	3.3
Thursday, 9-12	**Exam 1**
Friday, 9-13	3.3-3.4
Monday, 9-16	3.4-3.5
Tuesday, 9-17	**Homework 4 due**
Wednesday, 9-18	3.6
Friday, 9-20	3.7-3.9 (substitute)
Monday, 9-23	3.7-3.9
Tuesday, 9-24	**Homework 5 due**
Wednedsay, 9-25	3.10
Friday,9-27	3.11
Monday, 9-30	4.1
Tuesday, 10-1	**Homework 6 due**
Wednesday, 10-2	4.2-4.3
Thursday, 10-3	**Exam 2**
Friday, 10-4	4.3-4.4
Monday, 10-7	4.4, 4.6
Tuesday, 10-8	**Homework 7 due**
Wednesday, 10-9	4.6, 4.8
Friday, 10-11	4.8
Monday, 10-14	SCHOOL HOLIDAY
Tuesday, 10-15	SCHOOL HOLIDAY

Date	Chapters covered/**homework** or **exam**
Wednesday, 10-16	5.1
Thursday, 10-17	**Homework 8 due**
Friday, 10-18	5.1-5.2
Monday, 10-21	5.3
Tuesday, 10-22	**Homework 9 due**
Wednesday, 10-23	5.4 (substitute)
Thursday, 10-24	**Exam 3**
Friday, 10-25	5.4-5.5
Monday, 10-28	5.5-5.6
Tuesday, 10-29	**Homework 10 due**
Wednesday, 10-30	5.6
Friday, 11-1	7.1
Monday, 11-4	7.2
Tuesday, 11-5	**Homework 11 due**
Wednesday, 11-6	8.1
Friday, 11-8	8.1-8.2
Monday, 11-11	8.2-8.3
Tuesday, 11-12	**Homework 12 due**
Wednesday, 11-13	8.3-8.4
Friday, 11-15	8.4
Monday, 11-18	6.1 (substitute?)
Tuesday, 11-19	**Homework 13 due**
Wednesday, 11-20	6.2 (substitute?)
Thursday, 11-21	**Exam 4**
Friday, 11-22	6.5 (substitute?)
Monday, 11-25	6.6
Tuesday, 11-26	**Homework 14 due**
Wednesday, 11-27	4.5
Thursday, 11-28	SCHOOL HOLIDAY
Friday, 11-29	SCHOOL HOLIDAY
Monday, 12-2	10.1
Tuesday, 12-3	**Homework 15 due**
Wednesday, 12-4	Review for Final Exam
Friday, 12-6	Review for Final Exam
Friday, 12-13	**FINAL EXAM, 8 am – 11 am**