WELCOME TO MATH 1551!

Monday Aug 21, 2017

Today

1. Syllabus, course overview
2. Sections 1.1, 1.2

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Skiles 133A

These slides will be placed on T-square later today

COURSE GOALS

I. explore fundamental concepts of single variable calculus,
II. explore the solution of problems from a mathematical perspective
III. help prepare students to succeed in upper level math, science, engineering, and other courses that require calculus.

LECTURES AND PRACTICE

Lectures

- Mondays, Wednesdays, Fridays, 10:10 – 11:00
- Explore new material, review for midterms
- We will likely not have time to cover everything you need to know during lectures: please read the textbook

Friday's practice

- Fridays, 10:10 – 11:00
- Facilitated by instructor and lecture assistant (LA) who assume you have attended lecture
- Explore examples in worksheets posted on t-square
- All quizzes and midterms held on Fridays
- Active: students should be solving problems during Friday's practice

GRADE BREAKDOWN

Assessment	% of Average	% of Average
Participation	2%	2%
Homework	8%	8%
Quizzes	12%	12%
Midterms	48%	40%
Final Exam	30%	38%

numerical grades converted to letters based on standard intervals

A: [90%, 100%]

B: [80%, 90%)

C: [70%, 80%)

D: [60%, 70%)

F: [0%, 60%)

MIDTERMS

Dates and Topics

Midterm 1: Sep 22, covers chapters 1 and 2
Midterm 2: Oct 20, covers sections 3.1 to 3.9
Midterm 3: Nov 17, covers sections 3.10, 3.11, 4.1 to 4.6

Logistics

- You'll have 50 minutes to write each midterm.
- If unable to write quiz/exam contact me before midterm, we'll make arrangements for a make-up
- No formula sheet, closed book, no calculators.

QUIZZES

- You'll have roughly 10 minutes to write each quiz.
- Quizzes held at the end of the Friday's class.
- Cover everything up to and including most recent lecture
- No formula sheet, closed book, no calculators.

FINAL EXAM

- All students expected to write final exam.
- The final exam is cumulative.
- No formula sheet, closed book, no calculators.
- Final exam on Thu Dec 7, 6-8:50pm. Place TBA.

TEXTBOOK, ONLINE HOMEWORK

- Thomas, *Calculus Early Transcendentals, 13th ed*
- Available online at: pearsonmylabandmastering.com
- Buy your code from the GT bookstore, it is not recommended to buy a code from a third-party vendor.

TEXTBOOK, ONLINE HOMEWORK

- When signing up for MyMathLab, please set your **STUDENT ID to your USERID for the GT system. Otherwise it is hard to transfer grades from MyMathLab to T-Square.**
- You'll need our course name and ID:
  - Course Name: Math 1551, Spring 2017
  - Course ID: name12345
- If you take Math 1552/1553/1554/2550/2551, you shouldn't need to purchase another code again, your code last you through to those courses as well
- The GT Bookstore has hard copies, you may want to register for 10-day temporary access while you explore purchase options

COURSE RELATED WEBSITES

- We will be using T-Square: t-square.gatech.edu
- grades, announcements, practice midterms, syllabus

PIAZZA

- Online forum/discussion.
- Can also access Piazza from T-Square
- Please use Piazza
  - to ask and answer questions related to the course
  - In a **positive and constructive manner**
- I've invited you to enroll in Piazza via email, or enroll here: piazza.com/gatech/fall2017/math1551e/home

LECTURE NOTES & WORKSHEETS

- **Lecture notes** for week 1 (sections 1.1 to 1.3) are posted on T^2
- I may continue posting them in advance throughout the semester
- **Friday's worksheets** are also posted on T^2
  - students are encouraged to work on problems in advance of Friday's practice
  - worksheet solutions are not posted (we want students to attend Friday's practice)

LEARNING OBJECTIVES

The syllabus gives the learning objectives for this course. Students are expected to be able to do the following.

A. **Construct** mathematical expressions and graphs involving functions and their derivatives.
B. **Compute** mathematical quantities using differential calculus and **interpret** their meaning.
C. **Analyze** mathematical statements and expressions (for example, to assess whether a particular statement is accurate.)
D. **Write** logical progressions of precise mathematical statements to justify and communicate your reasoning.
E. **Apply** calculus concepts to solve real-world problems such as optimization and related rates problems.

TOPICS

The topics covered in this course include the following.

- Chapter 1 Functions
- Chapter 2 Limits and Continuity
- Chapter 3 Differentiation
- Chapter 4 Applications of Derivatives
- Chapter 5 Integration (only one section covered)

OFFICE HOURS

- **Instructor**: Skiles 133A, Mon, Thu 12-1, or by appointment
- **Lecture Assistant:** will also have office hours, to be announced
- LA office hour times will be announced soon via T-square
- students encouraged to take advantage of these resources throughout the semester
- Piazza is often the best way to get an answer to your question

SCHEDULE

- The last page of the syllabus gives a tentative schedule for our course.

QUESTIONS?

Before we start section 1.1, does anyone have any questions about our course?