Math 1131Q Fall 2019
Calculus 1
Section W32 TuTh 3:30-5:10 WTBY 217

Instructor: Stephen Zito
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Office Hours: TuTh 12:00-2:00 or by appointment

Text: *Calculus Early Transcendentals, Single Variable*, 8th ed., by James Stewart.

Course Description:
This course is an introduction to differential and integral calculus, which is the mathematical language used in any science concerned with dynamically changing quantities. The main topics it covers are limits, derivatives, integrals, the Fundamental Theorem of Calculus, and some basic applications of these ideas

Quizzes:

- Quizzes will be in-class, every class.
- I will post the topic on HuskyCT.
- You may use your notes.
- You may work together.
- I will occasionally assign take-home quizzes.

Exams:

- There will be two midterm exams and a final.
- Midterm Exam 1 is 9/26/19 and Midterm Exam 2 is 10/31/19.
- Final Exam is during the week of December 9th-14th.
- All exams are open note.

Homework:

- Homework will be assigned after each class.
- http://tutorial.math.lamar.edu/Classes/CalcI/CalcI.aspx
- These are the infamous Paul's Online Math Notes.
- I will typically NOT collect them.
- Occasionally, homework WILL be collected.
- It will count as a quiz grade.

Make-Up Policy:

- There are **NO** make-ups on quizzes or hw. Let me repeat that "**NO** make-ups."
- I will drop six quizzes/hw at the end of the semester.
- If you feel you'll miss more than six quizzes/hw, you need to come see me asap.
- If you miss a midterm exam, the next exam counts for double.
- If you feel you may miss the final exam, you need to see Stuart Brown and get official permission to reschedule.

Disabilities:

- If you have a disability, I highly recommend seeing student services and documenting any accommodations you may need.
- https://waterbury.uconn.edu/student-life/student-resources/disability-services/

Grades:

Quizzes	every week	40%
Midterm Exam 1	9/26	20%
Midterm Exam 2	10/31	20%
Final Exam	TBD	20%

Attendance:

- Class attendance is not required.
- I typically do NOT post class notes online.
- You can obtain notes from a fellow classmate, take a picture of my notes, or come to the office to review.
- Use Paul's Online Math Notes.

Calculators:

- Starting Fall 2019, calculators are no longer allowed in Math 1131Q.
- This includes non-graphing calculators and phones.
- DISASTER!!!!
- Trust me, it won't be so bad.

Midterm Grades

- Midterms grades are required for 1000-level classes.
- I will post after the first exam.
- Your midterm grade will only reflect the first exam.

Tentative Schedule:

Week	Section	Topic
1	Introduction, 2.1	Tangent and Velocity Problem
	2.2	Limit of a Function
2	2.3, 2.5	Calculating Limits, Continuity
	2.6	Limits at Infinity
3	2.7, 2.8	Derivatives and Rates of Change, Derivative as a Function
	3.1	Derivatives of Polynomials and Exponentials
4	3.2, 3.3	Product and Quotient Rules, Derivatives of Trig. Functions
	3.4, 3.5	Chain Rule and Implicit Differentiation
5		Review
		Midterm Exam 1
6	3.6, 3.8	Derivatives of Log. Functions, Expo. Growth and Decay
	3.9	Related Rates
7	3.10	Linear Approximations and Differentials
	4.8	Newton's Method
8	4.1	Maximums and Minimums
		Absolute Max and Mins
9	4.2	Mean Value Theorem
	4.3	Derivatives and Graphs
10		Review
		Midterm Exam 2
11	4.4	L'Hospital's Rules
	4.7	Optimization
12	4.9	Antiderivatives
	5.1	Areas and Distances
13	5.2, 5.3	Definite Integral and FTC
	5.4	Indefinite Integrals and the Net Change Theorem
14		Thanksgiving Break
15	5.5, 6.1	Substitution Rule and Area Between Curves
	6.2	Volumes
16		Final Exam (Day and Time TBD)