

**MATH 1C**

**SECTION 3**

**FALL 2017**

Instructor: **Dr Zack Judson**

Office Hours: MTWThF 9:30-10:20 E36b

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(Note: I will not answer Math questions over email)

Prerequisite: Math 1B or an equivalent course

Text: **“Calculus Early Transcendentals, 8<sup>th</sup> Edition” by James Stewart**

Student Learning Objectives: 1) Graphically, analytically, numerically and verbally analyze infinite sequences and series from the perspective of convergence, using correct notation and mathematical precision.  
2) Apply infinite sequences and series in approximating functions.  
3) Synthesize and apply vectors, polar coordinate system and parametric representations in solving problems in analytic geometry, including motion in space.

Exams: (40%) Three exams will be given with no make-ups. Your lowest exam score will be weighted at 10% and the other two exams will be weighted at 15% each. If an exam is missed under extreme circumstances and for a very valid reason, an equivalent of the final score will replace the missing exam score.

Quizzes: (10%) Quizzes will be given approximately weekly throughout the quarter. The quizzes fall on different days during different weeks, so please pay attention to your schedule. There will be two types of quizzes. At the end of the first week, we will have a prerequisite quiz so that you can assess whether or not you are up-to-date in the math skills you will need to succeed in this course. You will be given the entire time to complete this two page quiz on your own. The remaining quizzes will be 15 to 20 minutes long and will take place during the beginning of class. These quizzes are designed to help prepare you for the exams. As such, they will be community quizzes. This means that although you cannot use your notes or your book, you may work with anyone and everyone in the class to complete your quiz. There will be no make-ups for missed quizzes. The lowest quiz score will be dropped.

Labs: (5%) A half dozen times throughout the quarter we will have lab assignments. The intention behind lab assignments is to encourage students to think more deeply about the material. These labs will be worked on in groups of three or four. There will be some initial time allotted to these lab assignments during class, but you will need to work on them outside of class to complete them. Although every student must turn in a copy of the lab, you will be graded as a group on the assignment. For further information regarding the lab assignments please read the Lab Grading Policies later in this document. No late lab assignments will be accepted. Your lowest lab score will be dropped.

Discussion: (5%) The only way to learn math is to practice math. For this reason, after the first exam we will begin having discussions on an approximately weekly basis. In discussion we will work in groups on additional problems. Your work will be graded on participation and effort.

Homework: (10%) Homework will be due approximately weekly. The due dates are already listed on the schedule. You need to turn in your assignment as soon as you walk into class, even if you are late to class. The problems must be completed in the order they are assigned, skipping a line between problems. You may use up to two columns on your page. If you choose to use two columns you must complete the column on the left before moving on to the column on the right. All pages of the homework must be stapled together. You must include your name on the first page. Four points of your homework grade are allotted to formatting. On the first assignment you will be penalized 1 point per formatting error. On the second assignment you will be penalized 2 points per formatting error. After the second assignment any formatting error will forfeit all 4 points that are assigned for formatting. Each homework will consist of 20 problems. Four of these problems will be graded for content. These will be graded out of 5 points each. You will not know which 4 problems will be graded. For the remaining 16 problems you will be awarded one point each provided that I believe you attempted the problem. In this way each assignment is worth 40 points. Some homeworks will list Additional Problems. These are required problems that are part of the assignments 20 problems. No late work will be accepted. Your lowest homework score will be dropped.

Final Exam: (30%) A two-hour comprehensive final exam will be given. A student who misses the final exam and does not contact the instructor will receive an F in the course.

Honors: The honors version of this course includes the completion of two honors assignments. These assignments will replace your discussion score and half of your homework score. If you wish to take the honors version of this course, please speak to me in the first week of class.

Grading Scale: Due to the complexity of the material the grading scale we will use is as follows

A: 90 – 100	B + : 80 – 84	C + : 67 – 69	D: 50 – 59	F: 0 – 49
A – : 85 – 89	B: 75 – 79	C: 60 – 66		
	B – : 70 – 74			

Accommodations: Those of you who need additional accommodations, due to disability, campus-related activities, or some other reason, please meet with me during the first two weeks of class to discuss your options.

Tentative Schedule  
Math 1C Fall Quarter 2017

	Monday	Tuesday	Wednesday	Thursday	Friday
September	Review of Limits 25	Ch. 11.1 26	Discussion 1 27	Lab 1 28	Prerequisite Quiz 29 Hw 1 due
October	Ch. 11.2 2	Ch. 11.3 Quiz 2 3	Ch. 11.3 4	Discussion 2 Lab 1 due 5	Ch. 11.4 Hw 2 due 6
October	Discussion 3 9	Ch. 11.4 Quiz 3 10	Ch. 11.5 11	Ch. 11.6 Hw 3 due 12	Discussion 5 13
October	Lab 2 Quiz 4 16	Ch. 11.8 17	Discussion 6 Hw 4 due 18	Midterm 1 19	Ch. 11.9 20
October	Ch. 11.9 Lab 2 due 23	Ch. 11.10-11 24	Ch. 11.10-11 Hw 5 due 25	Lab 3 Quiz 5 26	Ch. 11.10 27
October/ November	Ch. 11.10 30	Discussion 8 31	Ch. 10.1 Quiz 6 1 Hw 6 due	Ch. 10.2 2	Discussion 9 Lab 3 due 3
November	Ch. 10.3 6	Ch. 10.4 7	Discussion 10 8	Lab 4 Quiz 7 9 Hw 7 due	Veteran's Day 10
November	Ch. 12.1-2 13	Ch. 12.2-3 14	Midterm 2 15	Discussion 11 16	Ch. 12.4 Hw 8 due 17
November	Lab 5 Quiz 8 20	Ch. 12.5 Lab 4 due 21	Discussion 12 22	Thanksgiving 23	Break 24
November/ December	Ch. 13.1,2,4 Hw 9 due 27	Ch. 13.2 Quiz 9 28	Ch. 13.3 Lab 5 due 29	Discussion 13 30	Lab 6 Hw 10 due 1 Quiz 10
December	Ch. 13.4 4	Discussion 14 5	Midterm 3 Hw 11 due 6	Discussion 15 7	Exit Survey Quiz 11 8 Lab 6 due
December	11	12	<b>Final 7:00-9:00am</b> 13	14	15

Important Dates:   October   7:            Last day to add a class.  
                           October   8:            Last day to drop with no grade on record.  
                           October  20:       Last day to request Pass/No Pass grade.  
                           November 17:     Last day to drop with a "W".

## Lab Grading Policies

Nobody makes it into a third quarter Calculus class without being exceptionally bright. For this reason, you may at some time in the past, have decided that it is easier to work alone than to work with others. This is unfortunate for two reasons:

- 1) The further you go in Math (or any other discipline) the more difficult the material becomes. If you go far enough, no matter how smart you are, you will reach a point that you cannot proceed without help.
- 2) Presumably the end result of your education will be to obtain a job that you enjoy and that will maintain you in a style in which you enjoy. Almost certainly this job will require you to work with others.

The labs we will cover in this class serve two purposes, they allow us to dig deeper into the fertile soil of the Calculus and they provide us the opportunity to develop our co-operative skills. Many of you, at some point after you transfer will take a class where a single group project might be worth as much as one of your midterms. It can be difficult to rely on others for such a large part of your grade. To ease you into these dynamics, your labs represent a relatively small part of your grade, each lab accounting for about 1%. Part of your grade for each of these labs will depend on the other members of your group.

**General Grading:** Each lab member is required to turn in their own lab report. Failure to turn in a lab report will result in a 0. The labs must follow the same formatting rules as the homework with the additional requirement that you must include your **team name** on the front page of your lab. There will be no late labs accepted. As I grade each section of the lab, I will randomly select different lab reports to assess. Every member of the lab group will receive the same score for a particular section as the one member whose report I assessed for that section. It is in your best interest to meet with your group outside of class time to make sure that everyone understands and agrees upon conclusions.

**Group Size:** Groups must consist of three or four people. Groups must be declared on the day a lab is introduced. After the first lab you will have the opportunity to choose your own groups provided that everyone who is present on time on a lab day has the opportunity to join a group with at least 3 members. If this is not the case, I reserve the right to reform groups as needed. You may change lab groups with each lab, but you are not required to do so. All lab days are already on your calendar. If you are not there on a lab day, you may still do the lab as a group of 1, but you will be subject to a 20% penalty. You may, of course, make arrangements with other members of the class to declare yourself as part of their group on the day groups are declared.

**Incompletes:** To avoid groups being penalized for a member who does not complete certain sections you will need to indicate whenever your lab is incomplete. You **MUST** write Incomplete at the top of the front page of your lab and indicate which sections you did not do. Your lab will only be graded out of the sections you completed. Failure to do this may result in a score of 0 for the individual who has an incomplete lab.

### **Advice from my last Math 1C Class.**

“Do the discussions, do the homework multiple times, take advantage of the extra resources”

“Do the homework and learn from it. Also do a lot of extra problems from the book and from other sources”

“Make sure to finish the homework on time, homework does help with the exams. Try to finish labs ahead and start labs ahead.”

**“I say don’t procrastinate because that will ruin you. Go to all discussions and don’t completely trust Slader:”**

“STUDY HARD AND DON’T SKIP CLASS”

“Don’t procrastinate. If you need help, seek out help – office hours & tutoring. Don’t miss a quiz/hw even if you didn’t finish/aren’t prepared.”

“As MATH 1C is a challenging course, I would recommend other students to spend much studying time to study & memorize the materials. Additionally, students should cooperate and work together with other classmates rather than working alone. Cooperation with others is an important skill to survive in challenging courses.”

**“DO THE HW MAYBE!!!!!!”**

“Spend more time independent of the time spent on assignments to study for Calculus.”

“FIRST: PAY ATTENTION TO COURSE, TAKE NOTES. LEARN THE WAY THE PROFESSOR DOES THE PROBLEMS IN CLASS INSTEAD OF BLINDLY USING YOUR OWN WAY → IT MIGHT BE WRONG.  
SECOND: BEFORE TAKING THE MIDTERM, PRACTICE ALL THE DISCUSSION PROBLEMS.”

**“Good luck! Spend time on homework! Study quiz!”**

“If you are good at prerequisites, you might slide with a passing grade without studying additionally. However, if you want a high grade, additional studying (mostly homeworks and discussions) is required to do well.”

***“Keep calm and show your effort.”***

*“Do the lab & HW early. Don’t procrastinate. Also don’t fail because that would be bad m’kay.”*

“Always go to class, pay attention, do homework, and definitely go to office hours if you have questions!! : )”