

**MATH 1C**

**SECTION 3**

**CRN 31102**

**WINTER 2020**

Instructor: **Dr Zack Judson**

Office Hours: TWThF 9:30-10:20                      Office: 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**

Exams: 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.  
(40%)

Quizzes: 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.  
(10%)

Labs: 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.  
(5%)

Discussion: 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.  
(5%)

**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 (you may not use more than two). 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. Your name must be on your assignment. 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 on Wednesday, March 25 from 7 to 9 am. If a student scores significantly higher or lower on the final than on the other exams, that will be taken into consideration before determining the final grade.

**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

<i>A</i> : 90 – 100	<i>B +</i> : 80 – 84	<i>C +</i> : 67 – 69	<i>D</i> : 50 – 59	<i>F</i> : 0 – 49
<i>A –</i> : 85 – 89	<i>B</i> : 75 – 79	<i>C</i> : 60 – 66		
	<i>B –</i> : 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 Winter Quarter 2020

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

Important Dates: January 18: Last day to add a class  
 January 19: Last day to drop with no grade on record.  
 January 31: Last day to request Pass/No Pass grade.  
 February 28: 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.

**Student Learning Outcome(s):**

\*Graphically, analytically, numerically and verbally analyze infinite sequences and series from the perspective of convergence, using correct notation and mathematical precision.

\*Apply infinite sequences and series in approximating functions.

\*Synthesize and apply vectors, polar coordinate system and parametric representations in solving problems in analytic geometry, including motion in space.