

MATH 1C

SECTION 1

WINTER 2018

Instructor: **Dr Zack Judson**

Office Hours: MW 12:30-1:20 E36b
TTh 9:30-10:20 E36b

Email: judsonzack@deanza.edu
(Note: I will not answer Math questions over email)

Prerequisite: Math 1B or an equivalent course

Text: **“Calculus Early Transcendentals, 8th Edition” by James Stewart**

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.

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 in the left hand corner. 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.

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.

Discussion: (5%) The only way to learn math is to practice math. For this reason, we will have 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.

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.

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 valid reason, please meet with me during the first two weeks of class to discuss your options.

Tentative Schedule
Math 1C Winter Quarter 2018

	Monday	Tuesday	Wednesday	Thursday	Friday
January	Ch. 10.1 8	Ch. 10.2 9	Discussion 1 10	Lab 1 11	Prerequisite Quiz 12 Hw 1 due
January	Martin Luther King, Jr.'s 15 Birthday	Ch. 10.3 16	Ch. 10. 4 17	Discussion 2 Lab 1 due 18	Ch. 12.1-2 Quiz 2 19 Hw 2 due
January	Ch. 12.2-3 22	Discussion 3 23	Ch. 12.4 24	Lab 2 Quiz 3 25 Hw 3 due	Ch. 12.5 26
January/ February	Discussion 4 29	Ch. 13.1,2,4 Quiz 4 30 Hw 4 due	Ch. 13.2 31	Midterm 1 1	Ch. 13.3 Lab 2 due 2
February	Lab 3 Quiz 5 5 Hw 5 due	Ch. 13.4 6	Discussion 5 7	Ch. 11.11 Quiz 6 8 Hw 6 due	Ch. 11.11 9
February	Lab 4 Lab 3 due 12	Ch. 11.1 Quiz 7 13 Hw 7 due	Ch. 11.1 14	Discussion 6 15	President's Day Weekend 16
February	President's Day Weekend 19	Ch. 11.2 Quiz 8 20 Hw 8 due	Ch. 11.3 Lab 4 due 21	Midterm 2 22	Discussion 7 23
February/ March	Ch. 11.4 Hw 9 due 26	Discussion 8 27	Ch. 11.4 Quiz 9 28	Discussion 9 1	Ch. 11.5 2
March	Ch. 11.6 Hw 10 due 5	Discussion 10 6	Lab 5 Quiz 10 7	Ch. 11.8 8	Discussion 11 Hw 11 due 9
March	Ch. 11.9 Quiz 11 12	Ch. 11.9 13	Lab 6 14	Ch. 11.10 Hw 12 due 15	Ch. 11.10 Quiz 12 16
March	Discussion 12 19	Review Hw 13 due 20	Midterm 3 21	Fourier Series Lab 6 due 22	Exit Survey 23
March	26	27	Final 7:00-9:00am 28	29	30

Important Dates: January 20: Last day to add a class.
 January 21: Last day to drop with no grade on record.
 February 2: Last day to request Pass/No Pass grade.
 March 2: 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.

“There’s no way around the work required to pass the class. MAKE SURE to look over prereqs!”

“Pace yourself with the HW; 4-5 questions per day is quite manageable.”

“Math 1C is a quite challenging course but it is worth studying hard from the beginning of class. Procrastination is a big enemy so be ahead of time in every assignment in the class schedule. I strongly recommend reading Discussions and Homeworks multiple times and rewriting notes in class. In addition, asking more questions is a huge plus. I love this class!”

“Make sure you come to all lectures and utilize office hours. They really aid in comprehension of the material”

“Pay attention to the notation that is used and use the discussion questions to study.”

“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.”

“Try your very best. Study hard. There is always hope if you study hard. Involve yourself in group work and labs.”

“Take your time learning the material and study for tests in groups. It really does help.”

“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.”

“Don’t underestimate the length of the homework.”

“This class will be easy if you do all the homework and discussions. Work each problem more than once until you truly grasp the concept. Doing problems and practicing is the best thing you can do in this class.”

“Do homework CORRECTLY, since it gets checked.”

“Attend every single class, study the discussions, quizzes, and sample midterms, do all the homework and definitely talk during group community quizzes.”

“Study every day even if it is just a bit.”

“Keep up with the lecture and everything EVERYDAY!!!! Don’t be like me!”

“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.”

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.