MATH 1A **SECTION 21** **CRN 13097**

Instructor: **Dr. Zack Judson**

Prerequisite: Math 32 or equivalent

Required Materials

1) "Calculus Early Transcendentals, 9th Edition" by James Stewart

2) Calculator: TI83/84 graphing calculator or similar

Accomodations

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.

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

Exams

Three exams will be given with no make-ups. Each exam will represent 20% of your grade. These will take place on Monday, July 11; Thursday, July 21; and Thursday, August 4.

Quizzes

Quizzes will represent 20% of your grade. However, all points that are missed on quizzes will be replaced by the subsequent exam. For example if you average a 60% across the first seven quizzes and then score a 75% on Exam 1, you will earn back 75% of the points you had missed on those quizzes so that your quiz average over those 7 quizzes will be a 90%. In this way quizzes are designed to be a place where you can make mistakes and learn from them. You are expected to do your own work on quizzes.

On the day a quiz is assigned, you can click on the quiz at any time. When you have finished answering the questions you will need to take pictures of your work, convert them to a single pdf and upload the pdf of your solutions. You must upload your solutions before midnight. **Due to the fact that all missed points are covered by the final, quizzes will only be graded if they are submitted as a pdf through the CANVAS quiz.**

Labs

We will have 5 lab assignments. The intention behind lab assignments is to encourage students to think more deeply about the material and to develop the soft skills that they will need to succeed in the real world. These labs will be worked on in groups of three or four. You will need to work on them outside of class to complete them.

Although every student must turn in their own lab assignment, you will be graded as a group on the assignment. No late lab assignments will be accepted. Each Lab will be graded out of 100 points.

Approximately two days before the lab is due, we will have a lab check-in day. A rough draft of the lab will be due the night before the Lab Check-In. The rough draft will be worth 10 points and will be graded solely based upon attempting all parts of the exam and asking meaningful questions about those parts you do not know how to do up to that point.

In addition each Lab will have a Lab discussion worth 10 points where you will document your interactions with your group. This discussion will be graded both for the work you share with the group and for your responses to the posts of other group members. You are more than welcome (and even encouraged) to interact with your group in other ways; however, you need to make sure to document this interaction on your discussion board. This documentation needs to show what interactions are happening in your group. Bad example: "we met in zoom today and did the lab" Good example: attach a transcript of the meeting.

Labs will represent 10% of your grade.

Group Work.

In my experience, every calculus class understands the lecture right up until the point they have to work through a problem. To help facilitate this process, approximately once a week, we will separate into groups and work with our classmates on a worksheet. Group Work will account for 10% of your total grade.

Homework

Homework will not be a part of your grade in this course. Some of you will read that sentence and have the mistaken impression that there will be no homework. The only way we can learn mathematics is by practicing mathematics. It is best to think of the homework assignments I assign as minimal problem sets. Students are encouraged to go beyond them. It is recommended that you complete all homework problems from a particular section before we take the quiz covering those sections.

Student Learning Outcome(s):

*Analyze and synthesize the concepts of limits, continuity, and differentiation from a graphical, numerical, analytical and verbal approach, using correct notation and mathematical precision.

*Evaluate the behavior of graphs in the context of limits, continuity and differentiability.

*Recognize, diagnose, and decide on the appropriate method for solving applied real world problems in optimization, related rates and numerical approximation.

Office Hours: