

MATH 31 SECTION 03Y CRN 25951

Instructor: Dr Zack Judson

Office Hours: M 12:30-2:20 TTh 12:30-1:20 Office: E36b

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

Prerequisite: Math 109, 114 or 130 or placement

Required Materials

1. XYZHomework
2. Scientific Calculator (i.e. TI 30X-IIs) [NO graphing calculators or cellphone]

Accommodations

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

Hybrid

Hopefully you are aware that this is a hybrid class. Contrary to some assumptions, this does not mean that the class can be taken in person or online. This class meets face-to-face Monday through Thursday and you are expected to attend. 70% of your grade will directly involve in class activity. That means you will be unable to pass this class without attending the face-to-face meetings.

Asynchronous Lectures

Most weeks (all save Thanksgiving weekend and the final week of lecture) you will have an asynchronous module that you must complete before midnight on Sunday. These modules will consist of some mixture of recorded lectures, short quizzes and handouts to read. These asynchronous modules will represent 10% of your grade.

Homework

Homework will also be worth 10% of your grade. The homework will be delivered through an online system called XYZHomework. More information about XYZHomework will be shared on the first day of class. Our course ID is **35163**.

All assignments for a given week will be due before midnight on the Monday following the week. There will be a few exceptions to this. In one or two of the weeks you will be given a 24

hour extension. Also, the homework for the 11th week will be due before midnight on that Friday due to the fact that it is our final week of lecture.

You are advised to begin the homework assignments as soon as you have received the lectures for them.

Cooperation

Sadly, most students have experienced at least one math class where everyone worked independently in their own heads. This is not mathematics. At its core mathematics is about the communication of precise ideas. Toward this end cooperation will represent 10% of your grade. Your cooperation grade will consist of group work assignments, discussion days and two math labs.

In my experience, every math class understands the lecture right up until the point they have to work through a problem. To help facilitate this process, after lectures we will be breaking into groups and working together on the white boards. We will be working on developing the skills we learned in the lecture. These group work assignments will be graded based on your collaborations during class time. Each group work will be worth 5 points.

Unfortunately, reflex skills will not be enough to help you do well in Calculus. You will need to learn to work on deeper problems. To help facilitate this process, we will have discussions. These discussions will either cover mathematical models or reviewing for exams. The discussion will become available the day before we cover it in class. You will be asked to do some amount of preparatory work before the discussion day. This will be worth 3 points. On the day of the discussion we will work together on the boards to try and figure out how to apply the knowledge we learned in lecture. This collaborative work will be worth 5 points.

To help prepare you for the complexity of some calculus assignments, we will have two math labs this quarter. 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. 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.

Although the components of one lab add up to 120 points, these will be scaled to 30 points when computing your cooperation grade.

Midterms

This course will consist of 4 midterms, each of which will represent 10% of your grade. These exams will be taken during class. The bulk of your grade on the exam will be based on the work you show to justify your answers.

The intent of the midterms is to be able to learn from them. On the 5th through 11th Mondays of the quarter, you will have the opportunity to retake a midterm score that you are not happy with. This retake will take place during office hours. In order to retake an exam you must submit test corrections to me by the end of the prior week. The retake will only replace your exam score if it is higher than the original exam.

Final Exam

A two-hour comprehensive final exam will be given on Wednesday, December 14, from 7:00 to 9:00am. The final will follow the same format as our midterms. The final will represent 20% to 30% of your grade. (see quizzes below)

Quizzes

Quizzes will represent up to 10% of your grade. However, all points that are missed on quizzes will be replaced by your final. For example if you average a 60% across all quizzes and then score a 75% on the final, you will earn back 75% of the points you had missed on quizzes so that your final quiz score will be a 90%. In this way quizzes are designed to be a place where you can make mistakes and learn from them.

As with your midterms, you are expected to do your own work on quizzes. However, unlike midterms, quizzes will be given asynchronously. On the day a quiz is assigned, you can click on the quiz at any time after class. The quizzes are designed to be completed in 20 minutes. You will have 40 minutes to answer the questions and upload a pdf of your solutions. **Due to the fact that all missed points are covered by the final, quizzes will only be graded if they are submitted as a single pdf through the CANVAS quiz.** Each quiz will be graded out of 20 points.

Student Learning Outcome(s):

* Investigate, evaluate, and differentiate between algebraic and transcendental functions in their graphic, formulaic, and tabular representations.

* Synthesize, model, and communicate real-life applications and phenomena using algebraic and transcendental functions.

Office Hours:

In-Person	E36b	M	12:30 PM	2:20 PM
By Appointment	E36b	T,TH	12:30 PM	1:20 PM