MATH 31　　　SECTION MP1　　　CRN 36857

Instructor:　　　　**Dr Zack Judson**

Office Hours:　　　MTh 11:30-12:20　　　TW 10:30-11:20　　　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 cellphones]

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.

Final Exam

A two-hour comprehensive final exam will be given on Wednesday, March 23, from 7 to 9 am. Like our midterms the final will take place synchronously. The final will follow the same format as our midterms. The final will represent 20% to 40% of your grade. (see quizzes below)

Quizzes

Quizzes will represent up to 20% 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 60 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.**

Homework

In order to succeed in math, we need to develop two different types of skills. On one hand we need to develop critical thinking skills where we can apply the concepts we are studying. On the other hand we need to have a strong foundation in reflex skills. These are the algebraic equivalent of our multiplication tables. Our homework will focus on these reflex skills.

The homework will be assigned at the end of class on the day that the corresponding topic is covered. It will be due before midnight on the following day. This will give you the opportunity to ask questions about the homework at the start of the next day's group work. Homework will be worth 10% of your grade. The homework will be delivered through an online system called XYZHomework. Our course number is **31568**.

Group Work

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, we will begin each class session by breaking into groups and working together on the white boards. We will be working on developing the skills we learned in the previous lecture. These group work assignments will be graded based on your collaborations during class time.

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 a weekly discussion. Every Monday you will be assigned a worksheet. When the worksheet is assigned you will not have heard all of the lecture material related to the worksheet. Throughout the week you are encouraged to share your initial thoughts on the worksheet.

For each group work assignment there will be a discussion board. The discussion board will be the place for you to share your work with each other. This is a place to propose a solution, an idea about how to begin the problem or a specific question that is troubling them about the problem. The discussion board will be graded both for the work you share with the group and for your responses to the posts of other group members.

Students will be expected to have posted some of their work and questions by Friday. This will ensure that your group has time to respond to your work. Group Work will account for 10% of your total grade.

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.

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.