MATH 31   SECTION MP1   CRN 47291

Instructor   Dr. Zack Judson   **Email**   judsonzack@fhda.edu

Prerequisite   Math 109, 114 or 130 or placement

Required Materials

1. XYZHomework

Office Hours

My office hours will be held Tuesday through Friday from 10:30 to 11:20 in the morning. Due to our current status, these office hours will be held online.

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.

Homework

This course will be designed to prepare you for Calculus. The homework will be delivered through an online system called XYZHomework. 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. Homework will represent 10% of your grade.

Group Work,

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 separate into groups and work with our classmates on worksheets. During group work you are expected to be on camera whenever possible. You will be expected to communicate with your group and to share your work and comment on the work of others.

The only way can learn is through struggle and mistakes. This is why group work will not be graded based on correctness or even completeness. Instead, you will be graded on your collaborations during class time. Group Work will account for 10% of your total grade.

Midterms

This course will consist of 4 midterms, each of which will represent 10% of your grade. These exams will be taken synchronously, that is to say they will take place during our class meeting time. The midterm will become available at 8:30. You will have until 10:20 to answer all of the questions, if you are unable to answer the question you must briefly state what you tried.

After you have finished the exam you will have until noon to upload a **pdf** of your solutions. If the work you upload does not match your answers you will score a zero for that problem. 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, June 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. As with the midterms, you will have until noon to upload a **pdf** of your work. 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 40 minutes to answer the questions and upload a 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.**

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.