Math 156, Intermediate Algebra for Business and STEM Majors

Section 9155, Summer 2021

Course Description

An intermediate algebra course that incorporates the use of graphing technology. Topics include functions and their graphs, equations and inequalities in one variable, systems of equations in two and three variables, exponential and logarithmic functions and equations, and conic sections.

Prerequisites/Corequisites

Completion of MATH 150 or MATH 150B or MATH 151 or AB705 placement into Math Tier 1 or higher.

Course Outline and Student Learning Outcomes

A course outline and student learning outcomes (SLOs) for Math 156 can be found at the following URL:

Math 156 Course Outline

Course Modality and General Expectations

This course is synchronous. You are expected to participate in Zoom Meetings during each regularly scheduled class time. You need a strong and stable internet connection. You should be able to participate in Zoom meetings, view content in Canvas, and work in the online homework environment all at the same time.

Instructor Contact

- **Instructor:** Chad Griffith
- **Office Hours by email:** MTWTh 8:10 – 9:00 PM (or by appointment)
- **Email:** cgriffith@santarosa.edu
- **Class Location:** Online through Zoom Meetings
- **Class Times:** MTWTh 5:30 – 8:10 PM

Required Materials

Textbook:

- Intermediate Algebra with Hawkes Learning Courseware
    - Hawkes Learning Courseware is required. Details for purchasing are in module zero.
    - *Intermediate Algebra: 6th edition,* by D. Franklin Wright. By purchasing Hawkes Learning Courseware, you automatically get a copy of the e-textbook.

Required Technology:

- A computer with an internet connection is required:
    - You need to participate in Zoom room class sessions during regularly scheduled class time.
    - You need to access the Canvas course shell regularly.
    - You need to be able to work with the Hawkes Learning online environment.
- A graphing calculator or graphing calculator App is required. In this class I will demonstrate both the TI-84 and ClassCalc. Either of the following is fine:
    - The TI-84 graphing calculator works well. The TI-83 is another option, but it requires a little more work as it does not have all of the features of a TI-84.
    - ClassCalc is free online graphing calculator software that can be used through an internet browser or the app can be installed on your phone. If you don't already own a TI-83 or TI-84 this is a great option.
- Scanner App is required. You must upload written work as **one single .pdf file that is small in size (less than 2 MB)**.
    - There are free apps for your phone that let you scan multiple-page documents as a single pdf file. Here are links to a few options:
    - iphone:
        - genius scan
        - adobe scan
    - android:
        - adobe scan
        - clear scan

Homework

Each class you will be assigned lecture videos to watch. You are to take notes of these videos. Your notes should include any definitions and examples covered in the video. You will scan your notes and upload them to that lecture video assignment page. Your collection of lecture video notes will be worth 10% of your total grade.

Problem Sets

Each class we will focus on exercises assigned from the Hawkes Learning environment. You will be assigned several problems in class to work on each day. To receive full-credit for that day's problem sets, all supporting work you created to solve those problems will be scanned and uploaded to that day's Canvas assignment page. Your problem sets are worth 20% of your total final grade.

Exams

Weekly Exams

There will be an exam given at the end of each week that covers the material covered in class that week. Your two lowest exam grades will be dropped, and your six best exam scores will combine to make your midterm exam average. Each of the six weekly exams will be worth 10% of your grade. Each weekly exam occurs on Thursday.

Final Exam

The final exam is scheduled for Tuesday August 10. The final exam is worth 10% of your grade.

Grading Policy

Student grades are based on performance in each of the categories shown in the table below. At the end of the semester, a final score is determined by weighting the category scores with the percentages given.

Category	Percentage of Semester Grade
Video Lecture Notes	10%
Problem Sets	20%
Midterm Average	60% (10% for each weekly exam)
Final Exam	10%

The final semester score is then converted to a letter grade for the semester using this scale.

A: 90 or better

B: 80 – 89

C: 70 – 79

D: 60 – 69

F: less than 60

Credit/Non-credit students need a minimum C grade (70) for credit.

Getting Help

Free tutoring services are available at the SRJC Tutorial Center and the Math Tutoring Lab. I am available during office hours which will occur through Zoom Meetings, so drop into my Zoom office hours if you have math questions or need help with other problems related to this course.

Attendance Policy and Drops:

Sonoma County Junior College District attendance policy is as follows. *Students are expected to attend all sessions of the course in which they are enrolled. Any student may be dropped from any class when that student's absences exceed ten percent (10%) of the total hours of class time.*

If you decide to discontinue this course, it is your responsibility to officially drop it. Do not assume the instructor will drop you automatically.

Standards of Conduct

Students who register in SRJC classes are required to abide by the SRJC Student Conduct Standards. Violation of the Standards is basis for referral to the Vice President of Student Services or dismissal from class or from the College. See the Student Code of Conduct.

Tentative Course Schedule

Course Schedule

WEEK	**TOPIC**
Week 1	Introduction to Class Linear Equations and Functions
Week 2	Systems of Linear Equations
Week 3	Exponents and Polynomials Fourth of July Observed (No Class Monday July 5)
Week 4	Rational Expressions and Rational Equations
Week 5	Roots Radicals and Complex Numbers

Week 6	Quadratic Equations and Quadratic Functions
Week 7	Exponential and Logarithmic Functions
Week 8	Conic Sections
Week 9	Review Final Exam Tuesday August 10