

De Anza College Fall 2022

Course: Intermediate Algebra (MATH D114.24)
Lecture: 6:30-8:45 Tue/Thurs Rm: S-54
PSME Web Site: <http://deanza.edu/psme/>

Instructor: William Abb
Email: abbwilliam@fhda.edu

Description: Applications of exponential, logarithmic, and rational functions. Emphasis on the development of models of real world applications and interpretation of their characteristics.

Materials: Textbook: Intermediate Algebra, 7th Edition by Blitzer.
Calculator: A scientific calculator is required. A graphing calculator is recommended. The TI-83 or TI-84 is preferred, and the TI-89 is not allowed.

Covered Topics:

- a. Develop systematic problem-solving methods.
- b. Investigate the characteristics of rational relationships.
- c. Develop rational function models to solve problems.
- d. Explore the concepts of inverse relations and functions.
- e. Investigate exponential relationships.
- f. Explore logarithmic functions.
- g. Develop exponential and logarithmic models to solve problems.
- h. Investigate distance and develop the equation of a circle.
- i. Explore sequences and series.
- j. Investigate how mathematics has developed as a human activity around the world.

Goals: For each student to be able to apply and retain the information from the course.

Exams: Three 100-point examinations will be given during the Fall Quarter. No make-up exams will be given. You may replace the lowest exam with the final exam score if the final exam score is higher.

Final: The date is listed on the calendar. To pass the class, you must take the final examination. The final examination will be given on Thursday, December 15th from 6:30-8:30 pm.

Quizzes: Each quiz is worth 10 points. Five quizzes will be given during the quarter.

Attendance: Students are encouraged to attend class each night in order to succeed.

Assigned: 3 examination @ 100 points each = 300 points
Points 1 final examination @ 100 points = 100 points
5 quizzes @ 10 points each = 50 points

Total points = 450points

Grading:

A	405-450
B	360-404
C	315-359
D	270-314
F	0-269

Fall 2022 Math 114 (Abb)

September 27th and 29th

Sections 1.6, 1.7, and 4.3

October 4th and 6th

Sections 5.6, 6.1, and 6.2

Quiz #1

October 11th and 13th

Sections 6.3, 6.4

Quiz #2

October 18th and 20th

Sections 6.6, 6.7, and review for the test

Test#1

October 25th and 27th

Sections 7.1, 7.2, and 7.3

Quiz #3

November 1st and 3rd

Sections 7.4, 7.5, 7.6

Quiz #4

November 8th and 10th

Sections 9.1,9.2
Test #2

November 15th and 17th
Sections 9.3, 9.4, and 9.5
Quiz #5

November 22nd
Sections 9.6, and 10.1

November 29th and December 1st
Sections 11.1 and 11.2
Test #3

December 6th and 8th
Section 11.3 and review for the final

December 15th
Final Examination: 6:30-8:30 PM

Student Learning Outcome(s):

*Evaluate real-world situations and distinguish between and apply exponential, logarithmic, rational, and discrete function models appropriately.

*Analyze, interpret, and communicate results of exponential, logarithmic, rational, and discrete models in a logical manner from four points of view - visual, formula, numerical, and written.

Office Hours:

In-Person 04:00 PM	Math Lab At De Anza College	T,TH	03:30 PM
In-Person	Room S54	T,TH	08:45 PM 09:15 PM