

INTERMEDIATE ALGEBRA
MATH-114-.62
Fall 2018

Course Description: Application of exponential and logarithmic functions, rational functions, and sequence and series to problems.

Course Objectives:

- A) Develop, throughout the course as applicable, systematic problems solving methods
- B) Investigate the characteristics of rational expressions
- C) Develop rational function models to solve problems
- D) Explore the concepts of inverse relation and inverse function
- E) Investigate the graphical and numerical characteristics of exponential relationships and describe their meaning in the context of a problem
- F) Explore logarithmic functions
- G) Develop exponential and logarithmic function models to solve problems
- H) Investigate distances on a number line and in a plane and develop the equation of a circle
- I) Explore sequence and series

Prerequisites: Qualifying score on the Math Placement Test within the last calendar year, or Math 212.

Text: Intermediate Algebra, (7th edition), R. Blitzer

Supplies: A) Scientific calculator (TI-34 or TI-36 recommended)
 B) .5 or .7 mm mechanical pencil
 C) Retractable pencil style eraser
 D) Quarter inch graph paper
 E) Six inch straightedge

Schedule: MW 6:30-8:45 pm in MLC 112

Instructor: Joel Hansen

email: hansenjoel@fhda.edu

Office Hours: After class

Attendance: You are expected to attend all class meetings. If you miss 4 class meetings, whether excused or unexcused, you will be dropped from class roll or failed if beyond "last day to drop with a 'W' " date unless extenuating circumstances have prevented you from attending. THIS IS AUTOMATIC.

Each absence or tardy will result in the loss of points towards your final grade point total. Each absence or tardy ≥ 10 minutes after class starts will result in a loss of 5 points. If you leave class after the break, you will incur a loss of 5 points.

BONUS---If you have zero absences and zero tardies (with no exceptions!) for the duration of the class, you will be given a bonus of 25 points toward your grade point total.

- Cheating** Any cheating on quizzes, tests or final exam will be reported to Dean of PSME Division and an additional report will be filed with Dean of Student Development. Cheating is grounds for dismissal and/or failure of class.
- Disruptive Behavior** De Anza College will enforce all policies and procedures set forth in the *Standards of Student Conduct* (see catalog). Disruptive behavior can include, but is not limited to, the following: verbal abuse, physical abuse or threats, willful damage to person or college property, inordinate demands for time and attention, harassment, discrimination, or disruption in the classroom. **DISRUPTIVE BEHAVIOR WILL NOT BE TOLERATED** because it interferes with the educational process or deprives others of the right to learn, the right to service, and/or the right to feel safe.
Any student disrupting a class may be asked to leave that class for the day. Failure to vacate the premises will result in Campus Security immediately being called to remove the student from the class. Administrative follow-up with the PSME Division Dean and/or Dean of Student Development will result.
- Class drop:** **DROPPING CLASS IS THE STUDENT'S RESPONSIBILITY** . If you no longer wish to be enrolled in the class, you must drop by the deadlines listed below. Drop forms are not needed.
Failure to drop class might result in a failing grade, owed fees and other negative consequences. **BE SURE TO DROP CLASS IF YOU QUIT ATTENDING.**
Drop class online at: **myportal.fhda.edu**
There will be no grade of record if class is dropped by 10/7/18. From 10/8/18 through 11/16/18, a grade of "W" will be recorded.
Students who have not dropped by final drop deadline will receive the appropriate grade for their achievement in the course.
End of quarter drops are restricted by California state guidelines unless there are extenuating circumstances.
IT IS INCUMBENT UPON YOU TO INITIATE THIS DROP PROCEDURE; IF YOU DO NOT, YOU WILL BE GIVEN A FAILING GRADE FOR THE QUARTER GRADING PERIOD.
- Quizzes:** Quizzes and calculator activities will be given in class or as a take-home activity. Each quiz is worth 15 points. Calculator activities will be determined by the difficulty of the assignment. For every five quizzes given, a quiz with the lowest score will be eliminated. No makeup quizzes.

Chapter exams: There will be four chapter exams and each will be worth 100 points. The top three scores will count toward final grade. No makeup exams.

Final exam: The final exam for the class is in two parts. The first part will be 50 questions and is comprehensive, multiple-choice and scantron corrected. It is worth 200 points. The second part is a demonstration of skills, such as graphing of parabolas or circles. It is worth 50 points. You must take final exam to pass class. If not, you will automatically fail the class.

Final exam date: 6:15 - 8:15 PM Wednesday, December 12, 2018.

Grades:

Chapter exams	300 points
Quizzes & Calc. activities	___ points
Labs	___ points
Practice final	___ points
Final	<u>250 points</u>
Total	___ point

Distribution:

A+- 98 – 100% of total points.
 A 93 97.99% of total points.
 A 91 92.99% of total points.
 B+ 89 90.99% of total points.
 B- 82 – 88.99% of total points.
 B 80 – 81.99% of total points.
 C+- 78 – 79.99% of total points.
 C- 67 – 77.99% of total points.
 D- 57 – 66.99% of total points.
 F- 0 – 56.99% of total points.

Above grades are guaranteed, but a more lenient scale may be adopted, giving grades for lower percentages than indicated, if a member of the class demonstrates a dedication toward making the class a positive learning experience. Criteria such as attendance, completion of all assignments and quizzes, and class participation would then be brought into consideration.

Important dates:

October 7	Last day to drop class with no record of grade
November 12	Holiday
November 16	Last day to drop class with a "W"

IMPORTANT! PLEASE READ NEXT PARAGRAPHS!

There is no reason to have a CELL PHONE, SMART PHONE, TEXT MESSAGING DEVICE, PERSONAL LISTENING DEVICE (iPod, MP 3 player, etc) or PAGER in operation in class. Make sure the device is in an OFF mode when you enter class so as not to interrupt class when called or paged. If you have an emergency situation where you are expecting a call, please let me know before the class starts.

If you fail to put your phone, messaging device, listening device or pager in an OFF mode and it rings or vibrates in class, or if you are observed text messaging during class, you will lose 25 POINTS FOR EACH INTERRUPTION OR INFRACTION. The point loss is AUTOMATIC!

Lack of electronic device etiquette is neither condoned nor tolerated.

A scientific calculator is the ONLY device used to compute work on tests or quizzes. Any smart phone, iPhone or iPad is NOT allowed for computational work.

Once you enter class you are expected to stay in your seat until class is dismissed or a ten minute break is given for a “two hour” class. Obviously, this also holds true during time allotted for a CHAPTER TEST OR FINAL EXAM. YOU ARE NOT ALLOWED TO POP IN AND OUT OF CLASS to deal with cell phone or messaging issues, smoke a cigarette or use the bathroom. Please take care of all the above before you come to class or during class break. If you have a physical problem where you might have to use the bathroom during class, please let me know before class starts.

(The above paragraphs are written so that you will have an appreciation for the rights of your fellow classmates. You do not have the right to disrupt the classroom education environment or education process nor deprive others of the right to learn or the right to service.)

You are expected to put your personal effort into your school work. If you are observed reading or copying another person's quiz or exam or talking to another person during such an exercise, the PSME Division Dean will immediately be notified of this behavior. An additional report will also be filed with the Dean of Student Development. **This behavior is neither condoned nor tolerated.**

Some thoughts on class...

- 1) No assignment will be accepted on RIPPED OUT SPIRAL BOUND notebook paper. If you MUST use this paper, remove(cut) the remaining nibs on the recently bound edge.
- 2) You should try to attend all class sessions. Mathematics is a skill building process, and in order to make progress in understanding these processes you have to be in an environment to ask questions. Try to be present for each and every session. See Attendance earlier in green sheet.
- 3) It is expected on the college level to do two to three hours of homework for every hour of class time. Some students can do a lesser amount of homework hours because of previous exposure to the subject material. Conversely, others will have to do three to five hours per

class hour to master the subject material. You will have to determine your time requirements.

When doing your homework, make sure you are doing quality time and not mechanical repetition. This means not having external stimuli (TV, stereo, rock 'n roll music, Walkman, iPod, ear pods, friends, beach, etc.) distracting you. "Quality" time means concentrating 100% on the required material. In your study of mathematics, you should do the problems until the processes are learned by rote.

- 4) You should attempt to do your homework – section by section. Go completely through the section then check the answers that are provided for you at the end of the book. In other words do not do each problem then flip to the back of the book to check your answer. If you persist in this behavior, you will find you are simply "doing problems" without upgrading your skill level, much less gaining insights in problem-solving abilities. You might also find that you have to do a section's problems a second or third time in order to fully master the material presented. You should walk into the next class meeting after homework is assigned knowing full well what the intent of the material is.

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.