

Course: Math 114.01 Intermediate Algebra **Instructor:** Mr. Charles Klein
Days: M – F Spring 2016 **Contact:** 408 864 8213
Time: 7:30 – 8:20 AM Room S-54 **Office Hours: S-76g** Mon–Thurs 8:30–9:20 AM

Text: Intermediate Algebra for College Students, 5th Ed. Blitzer; a graphing calculator (TI-83/84/86 or equivalent) is required.
website: www.deanza.edu/faculty/kleincharles/

Overview: Applications of rational functions and equations, systems of equations, absolute value equations, exponential and logarithmic functions and equations, sequences and series, and others. Development of mathematical models and applications.

Student Learning Outcomes (What math from this course you should be able to do at the end of the quarter)

- 1. Evaluate real-world situations and distinguish between and apply exponential, logarithmic, rational, and discrete function models appropriately.**
- 2. 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.**

Pre-requisite: Math 112 with grade of C or equivalent; qualifying score on Placement Test. You should have very good arithmetic skills; Algebra is the generalization of arithmetic. Thus success in algebra is highly dependent upon your ability to do and understand arithmetic (and occasionally, geometry).

The use of cell/portable phone, beeper, or pager in class is considered impolite and disruptive, if not rude. Please turn them off before entering class. If your phone/beeper goes off during a mini-test/exam, your paper will be taken, and you will not be allowed to continue working on it. Your score will be based on the work done up to that point.

S. O. P. 's: In addition to this course syllabus, the home page and the "**General Information**" page of the instructor's website: faculty.deanza.edu/kleincharles/ is also considered part of the course syllabus, and hence you are also bound by responsible for the information contained therein.

Attendance: Since mathematics is cumulative in nature, attendance at all classes is expected. Students should be aware of appropriate drop dates (Apr. 17 , May 27 –See special notes on Dropping a Class in the General Information page of the instructor's website). It is the student's complete responsibility to drop this class as I will not drop anyone from the class (see syllabus last page or webpage for procedure, if necessary). You are expected to attend all classes. Please inform me by email if you drop the class.

Homework: Homework assignments represent the student's opportunity to learn what was taught, by practicing both mechanical skills and problem-solving techniques. The student is expected to do –and is responsible for– all problems associated with the sections of the text covered each class meeting.

Mini-Test: Mini-Tests will be given intermittently throughout the quarter, usually in the middle of a chapter. Short (a day) notice, if any, will be given, and a missed Mini-Test (20–40 pts.) cannot be made up.

Exams: Each exam will be announced about a few days in advance. Students are required to take exams when scheduled, including the final. There are no makeup's of any kind; the final exam will count twice; one lowest exam score will be dropped. For example, if one of the midterm exams is the lowest, then the final score will replace that midterm score. (i.e., exam scores of 50 , 60 , and 70 , and a final exam score of 65 will give you exam points of 60 , 65 , 65, 70 - which means you just gained 15 free points (average goes up). However, with exam scores of 50 , 60 , and 70 , and a final exam score of 40 will give you scores of 40 , 50 , 60 , and 70 , and thus your overall average will be pulled down.

- *If your lowest exam score is the result of cheating or cell phone mis-use, that score will not be dropped, but the next lowest will.*
- If you need to leave the room during a mini-test or exam, your paper is turned in and you are done.
- At the end of the mini-test/exam, you will have **ten seconds** to turn in your paper. If it is turned in late, a late penalty (see below) will be assessed. It is not fair for you to continue working while others are turning in their work.

All work on mini-tests and exams must be neat, complete, and logically presented; where work is required, partial credit will be given provided the work justifies such credit: a correct answer by itself will not earn full credit (except on a multiple choice question).

Points will be assessed / deducted not only for the correctness of the mathematics, but also for the presentation of the math. Check the "General Information" page of the instructor's website for further information/details, etc. **THE PRESENTATION OF YOUR MATH IS AS IMPORTANT AS THE ACCURACY OF YOUR MATH.**

A penalty of a minimum of 10 % off, up to no credit, will be assessed for any mini-test, exam or other assigned work that is turned in late. At the conclusion of a mini-test or exam, you will have 10 seconds to turn in your paper. Anything turned in after that time limit will be considered late.

Extra Credit (problems –not required– offered "in addition to" rather than "in place of" an exam, etc.) is available at the instructor's discretion; these are generally due the next class. There is no makeup for any missed extra credit. There is typically an extra credit problem on each minitest/exam.

Some exams, including the final, in whole or in part, may be multiple choice. The day and time for the final is already set; consult the DAC schedule of classes. Do not ask to take the final early.

Cheating: includes, but is not limited to: looking at another's paper, copying, passing notes or other information, etc., will not be tolerated. The first instance will result in a zero on any test or quiz, and the student referred to the Dean for academic discipline. It is possible that as a result of cheating, the student could receive a grade of F for the course.

Disruptive Behavior: Any student disrupting class may be asked to leave. De Anza College will enforce all procedures set forth in the Student Standards of Conduct (see Class Schedule), and the appropriate remedial and/or disciplinary action will be taken when violations occur.

Homework Problems:

Expect problems to be given each day. Remember, you should be prepared to spend 2–3 hours per day (including weekends) for review, homework, and study. (see **General Information** document as part of the instructor's website)

It is strongly suggested you get the names and email/phone numbers of *several* students in the class so that you may contact others for any missed assignments or XC, should you be absent.

It is highly recommended that you form study groups with others in the class. Take the initiative to form that group: the purpose of the group is NOT to share answers/copy from one another; but to help EXPLAIN the material/how to do the problem. The best way to learn something is to try to explain it to someone else.

For each section covered, you should first read each of the examples worked out in the text, and then DO the "Check Point" Problem after each example. It is an EASY way to get into the thinking of the homework problems coming up.

The assignment will be to do every other odd problem (1 , 5 , 9 , etc.) in the "Practice" and "Practice Plus" sections; then do the odd problems in the "Application Exercises" through to the end of the section (end of "Review Exercises").

Exam Schedule (Part A)

<u>Exam:</u>	<u>Covering Sections:</u>							
<i>Exam 1</i>	1.6	1.7		3.3	MiniTest *	4.3		5.6
<i>Exam 2</i>	6.1	6.2	6.3	6.4	MiniTest *	6.6	6.7	6.8
<i>Exam 3</i>	7.1	7.2	7.3	7.4	MiniTest *	7.5	7.6	
<i>Exam 4</i>	9.1	9.2	9.3	9.4	MiniTest *	9.5	9.6	
<i>Exam 5</i>	11.1	11.2	11.3		10.1			

* In preparing for a minitest, it is *strongly* suggested that you also attempt all the problems in the "Mid-Chapter Checkpoint" (found in the middle of each chapter).

These serve as a good review of all the various algebraic skills you should know (some of which were covered in Math 112).

In preparing for an exam, there is a Review Section at the end of each chapter, which lists all the importance concepts of the chapter. This is a good place to start and finish each chapter: Find out what you should learn from the chapter; see if you in fact did learn the necessary material. Remember, the more you practice, the better you will do.

Take advantage of the video tutorials that are accessible via the instructor's website.

Exam Schedule: (Part B)

<u>Exam #</u>	<u>Covering</u>	<u>On or about</u>	
1	Ch. 1–5 5 sec's	April 18	10
2	Ch. 6 7	May 6	14
3	Ch. 7 6	May 20	10
4	Ch. 9 6	June 6	10
5	Ch 11–10 4	June 15	7
Final	Comprehensive	Check Finals Schedule	

Grade: Your letter grade will be based upon the *percentage* of total points earned, as compared to the total points possible, according to the following :

<u>From</u>	<u>Points</u>	<u>Percentage Earned *</u>	<u>Grade</u>
Project/Mini-Tests	(approx) 150	88 – above	A
Exams	500	78 – 87	B
Final	100	68 – 77	C
<hr/>		55 – 67	D
Total Points Possible	750	54 or below	F

* (i.e., from all minitests & exams you have 533 out of 750 points → 71 % = C)