

Summer 2015 - Math 114 Intermediate Algebra

Instructor: Revathi Sundaresan

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Class Time: 7:30 a.m. - 9:45 a.m. M - Th

Math Prerequisite: Completion of Math 212 or equivalent with grade of C or better; Qualifying score on the Math Placement Test within the last calendar year.

English Advisory:

English Writing 100 and Reading 100 (for Language Arts 100), or ESL-172 & 173. Although this is a Math course, English reading comprehension and writing skills are very important in Math 114.

Student Learning Outcomes:

By the end of this course, you should be able to

- Evaluate real-world situations and distinguish between and apply exponential, logarithmic, rational, and discrete function models appropriately.
- Analyze, interpret, and communicate results of exponential, logarithms, rational and discrete models in a logical manner from four points of view – visual, formula, numerical, and written.

Required Materials:

1. **Book: *Blitzer Intermediate Algebra for college students 5th ed (2nd De Anza Custom ed)***
2. **1 scantron (#2052)** available at the De Anza College bookstore.

Also, bring these items to class each day.

3. **Calculator:** TI-83, TI-83+, or TI-84+
 - Bring one of these graphing calculators to class each day.
 - If your calculator is lost, stolen, or broken, etc., it's your responsibility to obtain a replacement to use.
 - Cell phones or other devices cannot be used as a calculator on a quiz or exam.
 - Students cannot share calculators for quizzes or exams.
 - *I cannot lend my calculator.*
4. **4 spare AAA batteries**
5. **Ruler**
6. **Small Stapler**
7. **Graph paper**

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Additional resources exist online that can help you understand this material.

Check these out - they can be helpful in catching up if you miss a class or if you just want to get an alternative explanation of a concept.

- Khan Academy- free.
- Math Department Activity and Multicultural Resource Binder, available in the Math Department Office.
- <http://www.deanza.edu/studentssuccess/tutorial/mathandsciencetutorialcenter/index.html>.

Grading Policy:

Grades for this class will be calculated based on a weighted average using the following components and weights.

Homework	15%
Quizzes	20%
Mid-Term Exams (3 @ 15% each)	45%
Final Exam	20%

Grading Scale:

The following table shows the minimum percentage needed to guarantee the indicated grade.

A	93%		B	83%		C	68%
A-	90%		B-	80%		D	58%
B+	87%		C+	76%		F	Under 58%

Your overall score in the class will follow a normal distribution based on the performance of the class as a whole.

College Schedule & Deadlines:

- Last day to **add** a class: July 5, 2015 (Sun)
- Last day to **drop for full refund/credit**: July 1, 2015 (Wed)
- Last day to **drop with no record of grade**: July 5, 2015 (Sun)
- Last day to **drop with a "W" (withdraw)**: July 28, 2015 (Tue)
- **Final Exams:**
Final for section 114.01 is Thursday, 8/6/15 at 7:30am-9:45am

College Holidays (No Class):

- 7/4 (Fri) – July 4th

If you have additional questions, consult MyPortal/College Calendar

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Midterm Exams:

We will have 3 *midterm exams through the quarter in addition to the final*. Midterm exams will occur approximately every one and a half week and will last 60 minutes. We'll set each date firmly at least one week in advance. For each exam, **one** index card of your handwritten notes are permitted, 2 sided. These note cards will be collected with exams. Instructor keeps notes and exams. *No late or make-up exams will be given. If you miss the exam, you'll earn a grade of 0.*

Final Exam:

The final exam will be 2:15 hours long, worth at least 20% of your final grade, and will be mandatory. It will be comprehensive and will include all material covered during the quarter. Because the final exam will be longer than midterm exams, **one** page of your handwritten notes will be permitted (8.5 x 11 inches), 2 sided. Notes will be collected with exams for instructor to keep.

If English is a second language (ESL), a print (not electronic) English translation dictionary is allowed for exams/quizzes.

If you miss the final exam without contacting me (your instructor), you will receive an F for the course.

Quizzes:

Quizzes will be timed and will last approx 30 minutes. After each quiz is completed, please plan to stay for remainder of class time. One 3" x 5" notecard, one sided with no examples will be allowed on these quizzes. Note cards must be hand written and not photocopied. Note cards must be turned in with each quiz. Use of calculators will be allowed for some of them only. No make-up quizzes will be given. All quizzes will be surprise quizzes.

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Homework:

- All homework will be assigned daily and collected on the first day of each week.
- All homework must be submitted on time. No late homework will be accepted.

Each homework assignment will be graded according to completion and correctness. To be graded, all homework must be readable and should follow the following guidelines.

- Write your full name and class time at the top of each page.
- Submit all homework each week as one stapled packet
- Staples go on upper left corner of the page.
- If the solution is numerical, the solution should be in the lower right corner and boxed.
- If the solution is an interpretation, it should occur after the supporting calculations and should be a complete sentence.
- All numerical answers should be in decimal form, rounded to 3 places on the last step of the calculation. *Do not round answers until the final step.*
- Note chapter numbers clearly.
 - Chapter number should be written on the page above the homework questions.
 - If you start the chapter's homework assignment mid-page, make sure it's really clear to me where that Chapter's work begins.

If you have homework questions, we'll try to answer them at the beginning of class (time permitting) .

Homework assignments are initially set to be as follows, but may be adjusted during the quarter.

1. Section 1.6: # 5,10,15,20,25,30,35,40,45,50,55,60,65,70,75,95,115,124,129-131
2. Section 1.7: # 10,25,35,45,55,59-62
3. Section 5.6: # 11,15,19,33,47,82,86
4. Section 3.3: # 7,15,19,33,47
5. Section 4.1: # 27,33,39,45,47,49,71
6. Section 4.2: # 9,13,21,29,43,53,61,69,79
7. Section 4.3: # 7,23,29,45,53,63,83
8. Section 6.1: # 19,21,43,49,59,53,63,69,79,83,89,113,115
9. Section 6.2: # 5,10,15,20,25,30,35,40,45,50,55,60,65,70,75,85
10. Section 6.3: # 15,17,29,33,37,49,53
11. Section 6.4: # 7,11,15,17,23,27,33,37,55
12. Section 6.5: # 3,7,13,21,27,33,39
13. Section 6.6: # 9,11,19,31,37,43,51,53,55
14. Section 6.7: # 7,11,13,19,21,25,29,37,43,49
15. Section 6.8: # 5,13,17,23,40
16. Section 7.1: # 5,15,21,25,29,32abc,35,45,51,55,65,75,91,93,97,99,101,103,115,117
17. Section 7.2: # 5,15,17,49,65,75,81,101,111,115,123,129,131
18. Section 7.3: # 7,13,19,31,33,43,53,73,81,87,91,95ab
19. Section 7.4: # 5,7,15,25,35,53,59,65,71,79,81,83,85ab
20. Section 7.5: # 5,15,25,35,45,55,65,75,85,91,93,103,117,119,121,131
21. Section 7.6: # 3,5,9,15,19,23,27,37,41,43,45,47,49,51,53
22. Section 9.1: # 3,5,9,11,13,15,19,23,41,45,47,54,59,63
23. Section 9.2: # 11,13,19,21,29,31,45,47,49,52,53,55,57,61,63,67,69,71,73,83,87,89
24. Section 9.3: # 3,5,11,13,19,47,51,55,57,59,63,67,69,71,75,79,80,81,83,92,93b,109
25. Section 9.4: # 1,11,19,39,43,55,71,73,75,77,81
26. Section 9.5: # 1,7,11,17,19,25,33,35,39,49,55,57,59,61,69,85,86,99
27. Section 9.6: # 11,13,17,47
28. Section 10.1: # 1,3,7,21,29,33,35,37,45,61,63,69,85
29. Section 11.1: # 5,7,13,17,25,35,37,46,49,61,62,68,79,92
30. Section 11.2: # 5,9,21,25,39,41,45,47,57,65,67,69,71,83
31. Section 11.3: # 3,5,7,11,21,25,35,43,47,53,55,59,63,73,74,76,79,85,87,90,99

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Academic Integrity:

Cheating and academic dishonesty aren't tolerated and can result in a grade of 0 or F for the assignment (quiz/exam/other assignment) or a grade of F for the course and referral to the Dean for academic discipline. Any grade of 0 or F for dishonesty will be dropped and not replaced.

Cheating includes, but isn't limited to: copying from other students, permitting other students to copy from you, plagiarism, submitting work that isn't your own, using notes that don't meet permitted specifications, continuing to write/erase on an exam/quiz after permitted time has ended, changing your exam/quiz paper after it's been graded and then requesting a grading correction.

Drops / Withdrawals / Attendance:

This is a quick-paced, challenging course. It's strongly encouraged that you attend all classes, that you arrive on time, and that you stay through the entirety of each class. If you don't, you'll find it difficult to keep up and catch up.

- **Key Deadlines:** *Drop without no record of grade: Sun, 7/5* *Withdraw with W: 7/28*
- **You MUST be in attendance for all classes for the first week of this class to ensure that you are not dropped from the course.**
- If you are absent, leave early, or late more than 5 times during the quarter, you may be dropped from the class.
- *If you choose not to complete the class, it's **your responsibility** to drop/withdraw by the college deadlines.* If you stop attending, but don't withdraw, you may fail the course with a grade of F. Check college schedule deadlines to confirm deadlines shown in this syllabus.
- If you do miss a class after the first week, catch up using several resources.
 - Get notes/catch up with another student.
 - First, read the textbook.
 - Secondly, get tutorial help(if available)
- If you're late for a class wait until after the class is over to get missed materials.
 - After the class is over, pick up any papers or handouts that you may have missed out on from the beginning of the class.
- If you have to leave a class early, let me know before we begin the class that day.

Class Cancellation / Emergency:

If I need to cancel class or cannot attend, I'll e-mail you as soon as I can.

If class is canceled for any reason, or if an emergency causes campus to be closed, assume that any quiz, exam or due date scheduled on the date will be rescheduled to your next class meeting. If there are other changes, I'll announce them in the class after classes resume. Check the website and email; for notices/announcements.

In the event of an emergency during class that requires evacuation of the building, leave the class immediately, but calmly. In the event of an earthquake, take cover under your desk, making sure that your head is protected as best as possible. As soon as possible, evacuate the building. In the event of a local emergency not requiring evacuation, call 911 immediately.

Accommodations for Students with Disabilities:

If you have questions about these services or your eligibility for support services or eligibility, contact one of the following resources:

- Disability Support Service (DSS): Student Services Building (408) 864-8753, TTY (408) 864-8748
- Educational Diagnostic Center (EDC): Learning Center West 110 (408) 864-8839
- Special Education Division: (408) 864-8407; www.deanza.edu/specialed

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Please speak with me privately after class regarding your accommodations. All exams scheduled out of the classroom must be scheduled for a time period that at least overlaps class hours. Exams will not be authorized for vastly different time periods.

Class Conduct:

- *Be respectful of others in class.* If you disrupt class, you'll be asked to leave the classroom and you may be dropped from the class.
- *Don't use cell phones during class time. Please stow them and turn them off.*
 - If your cell makes noise during a quiz or exam, points will be deducted from your grade. Repeated noise may result in instructor taking your paper early and asking you to leave.
 - No texting during class. If you are found texting, you'll be asked to leave.

Expectations for Students:

- **Commit the time and don't fall behind**
 - Expect to spend *at least* 4 hours/day outside of class doing homework and reading material.
 - Practice and self-testing will help you identify questions and areas that you will want to get help with.
 - This is a fast-paced course, and there will be lots of material covered in a short period of time. Set aside time each day to complete homework or work on course-related assignments.
- **Participate**
 - Come to class, submit homework, ask questions.
- **Collaborate with other classmates**
 - We'll be working in groups.
 - Partner, teach, and learn from your colleagues.
 - Ask them questions and get their help if you miss a class.
 - *Form study groups* to help complete homework and address questions.
- **If you don't understand a topic, get help soon. You have several options.**
 - Consult another classmate
 - Reference online videos
- **Be conscientious about the work and content that you turn in.**
 - This work will be a big step up from usual high school coursework. We'll be taking mathematical techniques and applying them. As such, *you'll be graded not only on your knowledge of the technique itself, but also on its correct application and interpretation.* Your work will be graded for both accuracy and quality.
 - A correct answer alone won't be sufficient.
 - ! Written work that is graded must be complete, neat, legible, organized and in order.
 - ! Complete means that correct answers alone won't receive credit; they must be supported with correct work that is consistent with the answer.
 - ! Work should be logically presented in an understandable form.
 - ! Organize your work and write clearly. I must be able to understand it to grade it.
 - Clear interpretation of results will be necessary.
 - ! Use complete sentences that explain concepts and conclusions in the context of problems when interpretations, conclusions, or explanations are asked for.
 - ! It's expected that you'll be able to use clear and correct terms (including key wording) for interpretations, explanations, and conclus