

MATH 095 INTERMEDIATE ALGEBRA FALL 2010

Instructor: Ella Kleshcheva

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Office Hours:

Mon: 12:00-12:50, Tue, Fri: 10:00-10:50,
or by appointment

Required Text: *Beginning and Intermediate Algebra, 3rd edition*, by Miller, O'Neill, Hyde. Either the publisher's edition or the custom version printed for the University of Oregon may be used for this class.

Recommended Materials: TI-83+ graphing calculator. We will not be using calculators on quizzes or exams, however you may use one on the homework. This calculator is recommended by the department for all math classes above Math 95.

Prerequisites: Successful completion of Math 70 or an acceptable score on the placement test through the testing office.

Course Description: Math 95 is an Intermediate College Algebra class designed for college students to prepare them to succeed in their future college math classes. It is a prerequisite for Math 111 and Math 105-106-107 courses. In Math 95 we will be reviewing chapters 1-6 from the book which are covered in detail in Math 70 and study chapters 7-11. Chapter 7 is an in-depth look at rational expressions and equations, chapter 8 contains an introduction to functions, chapter 9 covers absolute value equations and absolute value inequalities, chapter 10 covers radicals and radical expressions, and chapter 11 is on quadratic equations and their graphs. Math 95 course is not for college credit and is graded on pass/no-pass basis only. To get a passing grade in Math 95 class a student has to get **C- or better overall class grade plus D- or better on the final exam (required by the mathematics department.)**

Objectives: By the end of this class students should be able to:

Use prerequisite concepts and skills of the arithmetic of real numbers and algebraic expressions.

Simplify and solve linear equations.

Graph linear equations and write the equation of the line.

Perform operations involving polynomials and rational expressions.

Factor quadratic and other polynomial expressions.

Solve quadratic and polynomial equations by factoring.

Solve equations containing rational expressions.

Apply rules of exponents, and use scientific notation.

Simplify and perform operations involving radicals and rational exponents.

Solve equations involving radical expressions.

Solve quadratic equations by taking square roots, by completing the square, and by the quadratic formula.

Given a quadratic function find its vertex, axis of symmetry, intercepts, and graph the parabola.

Homework (10% of final grade): Homework will be assigned for each section of the textbook covered in class. I will collect homework twice per week, usually on Tuesdays and Fridays. There will be time (5 minutes) at the beginning of class for homework questions. Any further questions you have can be addressed during my office hours. Not all of the assigned problems will be graded. I will randomly pick up 5 problems each week and they will be graded for accuracy. You have to show work to get any credit. Late homework will not be accepted for any reason. Two lowest homework scores will be dropped.

Attendance and Participation (10% of final grade): Attendance is required. To keep track of your attendance I will collect all in-class worksheets. Some of them will be graded and counted toward your attendance and participation grade. You will not be able to get in-class worksheets after class. The lowest worksheet score will be dropped. If you miss a class it is your responsibility to find out what was missed and catch up with the material.

Quizzes (10% of final grade): There will be 5 quizzes during the term. Quizzes will be given during the last 20 minutes of class usually on Wednesdays. There are no make-ups on quizzes. The lowest quiz score will be dropped.

Midterms(40% of final grade): Midterm exam make-ups are available in case of emergency or illness. Please make arrangements with me before the exam time or after the fact as soon as possible.

Midterm I: Friday, October 29

Midterm I: Monday, November 22

Final Exam (30% of final grade): Tuesday, December 7, 10:15 am.

This course is not for college credit and is graded on pass/no-pass basis only. A passing grade is **C- or better overall class grade plus D- or better on the final exam** (required by the mathematics department.)

Blackboard: You can use our Blackboard website to see syllabus, schedule, homework assignments, your grades and more.

To access our class blackboard site go to <https://blackboard.uoregon.edu/>

General Suggestions:

- Don't get behind in your work, homework, etc.
- Participate in class, ask questions, make use of my office hours.
- Form a study group with others in the class. Feel free to work on homework together—but everyone must join-in and work.
- If you think you'll need extra help, get a tutor right away. Check with Academic Learning Services (room 68 PLC).
- Academic Learning Services also maintains a free drop-in lab with tutors starting from week 2 (room 72 PLC, Mon-Fri: 9-4.)

For Instructor: Review of chapters 1-6 in the beginning is optional. It might be better to review factoring polynomials before the chapter on rational expressions and equations, review equations of lines while covering chapter 8 on relations and functions, review linear inequalities before starting chapter 9 on compound and absolute value inequalities, and review exponential expressions before chapter 10 on radicals and complex numbers. One of the possible schedules is printed below.

Math 095 Fall 2010 Tentative Class Schedule:

| Week | Sections Covered |
|-------------|--|
| 1 | Math 70 Review |
| 2 | Math 70 Review |
| 3 | 7.1, 7.2, 7.3, 7.4 |
| 4 | 7.5, 7.6, 7.7, 8.1 |
| 5 | 8.2, 8.3, 8.4, Midterm |
| 6 | 9.1, 9.2, 9.3, 9.4 |
| 7 | 10.1, 10.2, 10.3, 10.4 |
| 8 | 10.5, 10.6, 10.7, Midterm |
| 9 | 11.1, 11.2, 11.3, Thanksgiving |
| 10 | 11.4, 11.5 Cover Chapter 12 if done with ch.7-11 sooner |