MATH 095 INTERMEDIATE ALGEBRA FALL 2013

Instructor: Ella Kleshcheva
Office/Phone: 5 Deady Hall / 346-4724
Email: eklesh@uoregon.edu

Office Hours:
Tue: 12-1, Wed: 10-11, Fri: 9-10,
or by appointment

Required Text: *Beginning and Intermediate Algebra, 4rd 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. The book is sold with Connect software access code which you will need to do online assignments. Another option is to buy an access code with ebook which is the exact electronic copy of the required textbook.

Other Required Materials:

- Graph paper for graphing (you shouldn't need more than 20 sheets)
- Ruler
- Stapler
- Paper without frayed edges (remove them when tearing from a notebook) for your homework assignments

Recommended Materials: Any scientific calculator (TI-30XS can be used later for Math 105/106/107) or graphing calculator (TI-83 or TI-84 - required for calculus). We will not be using calculators on quizzes or exams, however you may use one on the homework.

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 using the same book as in Math 70. We will study chapters 6-11. Chapter 6 is about factoring. It is where we finished in Math 70 and where we start again in Math 95. 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.

Grading: Math 95 is a pass/no-pass course that does not count for college credit but it does count for attendance credit for financial aid. To get a passing grade in Math 95 class a student has to get **C-(70%) or better overall class grade plus D-(60%) or better on the final exam (required by the mathematics department.)** Course grade will be based on a weighted average score of your homework, worksheet, quizzes, midterms, and final exam.

Homework: Homework will be assigned for each section of the textbook covered in class. There will be online assignments and regular assignments. Homework assignments will be listed on our Blackboard site in "Homework Assignments" section. Online assignments will be due once a week on Tuesdays and regular assignments will be due on Fridays. On Friday assignments not all of the assigned problems will be graded. I will randomly pick up 10 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.

Online Homework Assignments: Online homework assignments will be assigned over the internet via software called **Connect**. Connect assignments will be due at 10 pm on the given due dates once per week usually on Tuesdays. To register for Connect go to **http://www.connectmath.com.** Click the "Sign up now!" link. Enter your Course Code (A6LRD-NGJ9Q - for our class). Enter your access code (it is attached to the cover of your new textbook) or purchase an access code online. When buying your access code online you will have an option of buying access code with the ebook which is an exact electronic copy of the textbook.

Attendance and Participation: 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 Homework/Worksheets/Quizzes grade. You will not be able to get in-class worksheets after class. If you miss a class it is your responsibility to find out what was missed and catch up with the material.

Quizzes: There will be 6 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.

Midterms: 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: Monday, October 24
Midterm I: Monday, November 21

Final Exam: Friday, December 13, 10:15

Grading Breakdown:

Homework/Worksheets/Quizzes	**40%**
(3 lowest scores will be dropped)	
Midterm Exams	**30%**
Final Exam	**30%**

Extra Help: If you think you'll need extra help, get a tutor right away. Check with Teaching and Learning Center (room 68 PLC). Teaching and Learning Center also maintains a free drop-in lab with tutors starting from week 2 (room 72 PLC, Mon-Fri: 9-4.) You can read about their services on their site **http://tlc.uoregon.edu/**

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 **http://blackboard.uoregon.edu/**

Math 095 Fall 2013 Tentative Class Schedule:

Week	**Sections Covered**
1	6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7
2	6.8, 7.1, 7.2, 7.3, 7.4
3	7.5, 7.6, 7.7, 8.1, 8.2
4	8.3, 8.4, Review, **Exam #1**
5	9.1, 9.3, 9.4
6	10.1, 10.2, 10.3
7	10.4, 10.5, 10.6, 10.7
8	11.1, 11.2, Review, **Exam #2**
9	11.3, 11.4 Thanksgiving
10	11.5, 9.2, Review

* Sections 8.4 and 9.2 are optional. Omit them if you are out of time.
* On the other hand if you think you can be done with chapters 6-11 sooner, cover Chapter 12.

Course Goals: 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.

Notes for Instructors:

A lot of students in Math 95 get into class by taking placement test and do not take Math 70 and therefore need some review of Math 70 material. That is why we want to cover chapter 6 again so students have chance to review/study factoring polynomials before the chapter on rational expressions and equations. It is also needed to 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. Chapter 12 on exponential and logarithmic functions is optional. It will be studied in Math 111 in details.

Department requirement: This course is graded on pass/no-pass basis only. To pass Math 95 class students are required to get **C- or better overall class grade plus D- or better on the final exam**.

Final Exam: If you are teaching more than one section of Math 70/95 your final exam will be combined: it will be scheduled from 6 p.m. to 8 p.m. on Monday of the finals week in the same room for all sections you teach.

Connect Access Code: We are switching to a new edition of the book this fall which is bundled with Connect software access code ($156). There is no way to buy the textbook in the UO bookstore without Connect access code this term. However, your students will be able to use Connect only if you open an online course for them. To get instructor's access code please contact McGraw-Hill representative Raisa Kreek (**raisa_kreek@mcgraw-hill.com, 503-347-6603**). If you open a course, your students will have an option of buying Connect access code ($ 52.50) or Connect access code with ebook which is an electronic copy of the textbook ($ 85). Ebook completely replaces the hard copy textbook. The access code works for 52 weeks.

Regarding Homework Assignments: The homework can be assigned online using Connect program. Connect can be used for homework, worksheets, reviews, and even quizzes. We don't have to use it though since we still have an option of using a paper marker assigned by the department for grading students' homework assignments. Another option is using WebWork as online program for homework and reviews. The choice should be made by each instructor individually.