Math 70: Beginning Algebra

Fall 2016: CRN 16334

Instructor: Tammy Nezol
Office: Anstett 198C
Office Hours: TBA

Class Meeting Times: MTuWF 1-1:50
Class Location: Fenton 119
Required Materials:

- Textbook: Beginning and Intermediate Algebra, 4th Edition Miller, O'Neill, Hyde. Note: Your purchase of ALeKS comes with an eText already for this material. You can purchase an ALeKS code from the bookstore for $100. You may arrange for a printed copy of the text from ALeKS if you desire a hard copy.
- ALeKS is required. ALeKS is our online homework system. More information about ALeKS is on Canvas and will be given in class.
- Canvas (http://canvas.uoregon.edu) will be our main place for announcements, grades, etc. Check Canvas daily for updates.
- Graphing Paper
- pencils (exams and quizzels must be done in pencil)
- Scientific Calculator (one on your phone is fine as we will not use calculators on exams)

Course Outcomes:

accurately use the order of operations in order to reduce an expression, including those with absolute values, signed numbers, fractions, and/or decimals.

add, subtract, multiply, and divide fractions and decimals

explain when and why to use common denominators when performing operations on fractions

identify whether a number is a whole number, an integer, or a real number

simplify and evaluate algebraic expessions

solve and simplify linear equations

interpret a point on a line in the context of a word problem

interpret the slope of a line in the context of a word problem

graph linear equations in two variables

determine the intercepts of a given line whether from a graph or from an equation

determine whether a basic equation is linear or exponential

determine from a table of values whether an equation is linear or exponential

solve systems of linear equations

identify solutions to systems of equation as either a line, a point, or no intersection (parallel lines)

solve a variety of world problems based on linear equations or systems of linear equations

manipulate exponential expressions, and use scientific notation

factor quadratic and other polynomial equations

solve quadratic equations

identify whether an equation is linear, quadratic, or exponential

If time:

Basic simplifying of square roots and knowing $x^2 = 25$ means $x = \pm\sqrt{5}$

Basic use of quadratic formula

Assignments:

- ALeKS due dates are on ALEKS. Also, if you go to Canvas you can find ALEKS due dates under Pages.
- Full, active participation is required for this course. We will often concentrate on questions at a deeper level than on ALEKS as will be reflected in worksheets, quizzes, exams.
  - As such, **attendance is required** and will affect your grade. In-class worksheet scores are based partially on attendance.
  - There are some circumstances that warrant more than 4 absences and if these are the case you should be in contact with me regarding how to make up your participation grade.
- In-class worksheets will be completed in class regularly. The worksheets will be turned in Friday of each week. If you are not in class, you may take a picture of your homework and email it to me by the end of class time to still receive credit. Otherwise, I do not accept late work but I do drop two of these worksheets on the assumption that life happens (illness, funeral, wedding, etc.) Full-active participation, including attendance, may affect your worksheet grade.
- Quizzes will take place every Friday or as announced. Make-up quizzes are not given. I do drop two quizzes on the assumption life happens (illness, funeral, wedding, etc.) If you are missing class for a University sponsored event, please talk to me for arrangments.
- There will be two midterms and one final. Midterms are tentatively scheduled from Weeks 5 and 8. The final is Monday, December 5 at 5:00. **No early finals will be given**.

Class Policies and Information:

- Students are expected to arrive on time and stay through class. Attendance is mandatory and may affect your grade (see more information under assignments). Attendance may be taken via role call or via in-class worksheets. Tardiness or improper technology use (ex: cell phones) may result in a lower attendance score for that day.
- Be respectful of yourself and others. Be kind.

- Do not use cell phones in class. I reserve the right to mark you as absent when I see you texting/using your cell phone. It's very distracting to both me and your classmates.
- In general, late homework is not accepted. YOu can work back in ALEKS to earn partial credit at any time. Email me the old score, new score (at least 80%) and the assignment name to receive the partial credit.
- In-class worksheet scores are partially (and often fully) based on attendance and completion.
- Instead of quiz makeups, I assume life happens for everyone and drop two quiz scores. I do this to take into account illness, weddings, funerals, injuries, etc.
- Office hours are drop-in. No appointment is needed during office hours. You may come and ask homework questions, ALeKS questions, conceptual questions, etc.
- Calculators may occasionally be used in class but will not be allowed on quizzes or exams. Homework should mostly be completed without calculators unless otherwise stated.

Grading:

- This is a pass/no pass class. In order to pass you must earn a C- in the course and earn at least a D- on the final exam. Please note: This course does not carry college credit but does count toward financial aid as 4 credits.
- A possible weighing of grades: 30% final, 40% midterms (20% each), 30% quizzes, homework, attendance (not evenly weighted)
- I reserve the right to alter these weights as necessary to take into account participation, improvement, etc.

Academic Conduct:

Final work turned in must be your own. You are not allowed unauthorized help on quizzes or exams. For more information on what constitutes academic misconduct, please see the University of Oregon Student Conduct Code. https://uodos.uoregon.edu/StudentConductandCommunityStandards.aspx

Accessible Education Center:

The University of Oregon is working to create inclusive learning environments. Please notify me if there are aspects of the instruction or design of this course that result in disability-related barriers to your participation. You are also encouraged to contact the Accessible Education Center (formerly Disability Services) in 164 Oregon Hall at 541-346-1155 or uoaec@uoregon.edu .

Tentative Schedule:

This is a very tentative schedule and is likely to change:

Week 1: Order of Operations/signed Numbers/operations with Real Numbers

Week 2: Algebraic expressions/order of operations/algebraic properties

Week 3: Solving Algebraic equations in one variable/modeling with albegraic equations in one variable

Week 4: Inequalities in one variable/introduction to lines through modeling and graphing

Week 5: Linear equations in two variables, introduction of exponential equations

Week 6: Systems of linear equations (with lots of modeling)

Week 7: Catch-up, parallel and perpendicular lines, more modeling with lines and systems of equations of lines

Week 8: Integral exponents, Quadratic equations, factoring

Week 9: Continue quadratics

Week 10: Review/Catch-up

Final exam: Monday, December 5 at 5:00