

INTERMEDIATE ALGEBRA

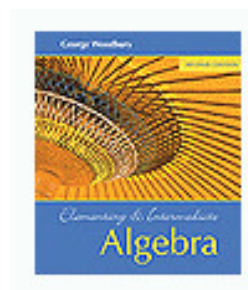
COURSE DESCRIPTION: Study of functions; linear, absolute value, quadratic, radical, rational, exponential, and logarithmic. Conic sections, applications, inequalities, systems of equations, matrices, sequences, series, and the Binomial Theorem.

PREREQUISITE: Successful completion (grade of **C** or better) of Math 101

TEXT: George Woodbury, Beginning & Intermediate Algebra, 2nd Edition

MATERIALS NEEDED:

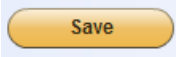
- ❑ **One to two Spiral Notebooks**
- ❑ 3-ring binder
- ❑ Binder Paper
- ❑ Pencil(s)
- ❑ Calculator
- ❑ **Access Code to Course Compass**
- ❑ Internet Connection: Cable/DSL, T1 or other high-speed connection. Dial-up will **greatly limit** the resources you will be able to access from the online courseware.



HOMEWORK:

- Homework is assigned on a regular basis at www.coursecompass.com as well as in class. You may work ahead if you like. ***It is important to stay current to be successful in the course!*** Each assignment has a due date. **Homework that is submitted late will be penalized by 25% of the points possible.**
- Any written problems and exercises assigned in class must be worked out thoroughly, completely and neatly, otherwise the work will not receive full credit.

Note:

- *When working on homework, you do not have to complete an entire assignment during one session. If you need to stop while in the middle of an assignment, simply hit the  icon and the program will save your work. You can then come back to the assignment at another time and continue from where you left off.*
- ***Being absent on the day homework is due does not excuse you from the late submission penalty.***

Homework Notebook: All homework problems are to be worked out completely, with all work shown in a **spiral notebook**. Each assignment and the problems of the assignment are to be clearly labeled and answers are to be boxed. The **Homework Notebook** will be collected on test day and will be worth **two homework** assignments.

QUIZZES: There will be **daily** in-class **homework quizzes**. These quizzes will be worth 10 points each and will be given **during the first five minutes of class**. Any students who are not in their seats when the quiz is handed out **will not** be allowed to take the quiz and will receive a grade of zero for that quiz. There will be no makeup quizzes for students coming in late during a quiz or for students absent on the day of a quiz.

ATTENDANCE: Attendance is **not optional**. Students are expected to attend all class meetings, be on time, and be in class the entire class session. **Two tardies can be counted as an absence.** **Ten (10) absences** may result in a drop from the course. However, if you decide to drop the course, it is **your** responsibility to make the drop official in the Admissions and Records office or else possibly receive a grade of **F**.

Extra Credit: Before every chapter test in class, there will be a **practice test** posted on Course Compass. You will have **two** opportunities to take this practice test and 5% of your best score will be added to your in-class exam score. This practice exam has a prerequisite of at least a 70% average on all of the homework for that chapter. If you do not have a 70% average on the homework, then you will not have access to the practice test and will not get to earn extra credit.

TESTS:

- Six to seven (6-7) chapter tests, worth 100 points each, will be given.
- There are **NO MAKEUPS** for missed tests. **NO EXCEPTIONS!!**
- *If you absolutely must be absent on the day a test is scheduled, you may discuss with me the possibility of taking the test early.*

FINAL EXAM:

A two hour comprehensive final exam worth 100 points will be given at the end of the semester during final exams week. This final exam is ***mandatory and will count as a regular exam.*** The final **may** be used to replace a low test score or a missed test. The final **may not** be used to replace the homework grade or quiz grade.

GRADING:

- **Homework** will represent 25% of the final course grade.
- **Quizzes** will represent 15% of the final course grade.

- The **chapter exams and the final exam** will represent 60% of the final course grade.

Example: If your homework average is 90, the average of your quizzes is 75 and the average of your chapter exams and final is 78, then you would compute your grade as follows:

$$(.25)(90) + (.15)(75) + (.60)(78) = 22.5 + 11.25 + 46.8 = 80.55$$

- Your grade will then be determined by the following **grading scale:**

90 – 100%	= A
80 – 89%	= B
67 – 79%	= C
55 – 66%	= D
0 – 54%	= F

Academic Dishonesty: Academic dishonesty in any form is a very serious offense and will incur serious consequences, including but not limited to receiving a grade of F in the course. For the college policy on cheating and plagiarism, see the college catalog.

NOTE: If you have a verified need for an academic accommodation or materials in alternate media per the Americans with Disabilities Act or Section 504 of the Rehabilitation Act, please contact me as soon as possible.

Important Dates:

- January 17, 2011 – Martin Luther King Holiday**
- January 28, 2011 – Last day to add**
- March 11, 2011 – Last day to drop**
- FINAL EXAM DATE: Monday, May 16, 2011: 11:00 – 12:50**
Wednesday, May 18: 10:00 – 11:50

COURSE OBJECTIVES:

A student's performance will be evaluated upon their ability to

- use function notation and the properties of lines and linear inequalities.
- simplify radical expressions and perform operations on radical expressions.
- graph parabolas and solve quadratic equations.
- Use the properties of exponents and logarithms to simplify expressions and solve logarithmic and exponential equations.
- Analyze equations and graphs of the conic sections.

COURSE CONTENT OUTLINE

Chapter 8: Linear Equations, Absolute Value, Linear Inequalities, Quadratic and Rational Equations, Systems of Equations

Chapter 9: Radical Expressions and Equations

Chapter 10: Quadratic Equations

Chapter 11: Functions

Chapter 12: Logarithmic and Exponential Functions

Chapter 13: Conic Sections