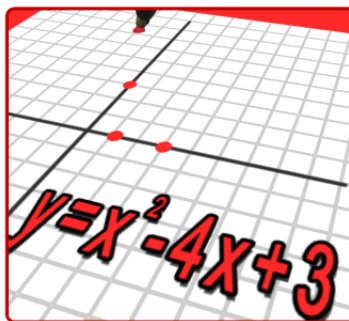


Intermediate Algebra

Fall 2010

Mathematics 103

Section # 56734



Instructor: Dr. John Heathcote
Office: FEM – 1B (in the math center)

Class Times: MW 2:00-3:20 pm, CCI-201
plus online

Phone: 638-3641 ext. 3215

e-mail: john.heathcote@reedleycollege.edu

Office Hours: Mondays and Wednesdays, 12:00-1:50 pm
(either in my office or in the math study center)
Or feel free to stop by or make an appointment

Optional Text: Elementary and Intermediate Algebra, 2nd Edition, George Woodbury

Required Access to Web-Based Homework: We will be using a textbook website for submitting homework after each class. You are required to have access to this site in order to submit your work. You can get access to this site either with an access code provided when you purchase the textbook or by purchasing the access online, using a credit card. You will be able to access the website for free for the first two weeks of the course. After that two week time, you will need to have purchased access to the website.

To register for the MyMathLab homework website, go to www.coursecompass.com. Click on “register”. The Course ID for our course is “heathcote73797”.

Calculators may be used in this class and will be necessary for some calculations. I would recommend a scientific calculator that shows the expression as you type it in. The TI-30Xa (\$13.95 in the bookstore) is a good, economical choice.

Prerequisite: Math 101 or placement test

Catalog Description: This course will deal with many algebraic concepts including: equations and inequalities in two variables, rational exponents and roots, quadratic functions, exponential and logarithmic functions, and conic sections.

Grading:

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| 70% | Chapter Tests and Final Exam |
| 20% | Online Homework |
| 10% | In-Class Activities and Worksheets |

Grading Scale:

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|----------|---|
| 90-100% | A |
| 80-89.9% | B |
| 70-79.9% | C |
| 60-69.9% | D |
| <60% | F |

Chapter Tests: Approximately five chapter tests will be given during the term. These will mostly include material from the most recent chapter but may also include some previous material as well. Each test will take one full class period. Unless special circumstances exist, the test must be completed during the class. No extra time will be given.

Final Exam: The material in this course is used in many courses that follow in both math and science. Because of this, it is not acceptable to just forget everything once you take a chapter test. So, a comprehensive final exam will be given during final exam week.

Online Homework: “Practice makes perfect” is particularly true in mathematics. Therefore, it is critical that you do your homework and put in a good effort in using that homework as a way to learn and practice the material. You will access your homework on the textbook website. You are able to print out a copy of your homework if you would like to work them all out before entering your answers on the computer. When you do submit answers on the computer, you will immediately find out if you are correct. If you are incorrect, you will have multiple attempts to correct your answer. At the beginning of each unit, all of the homework for that unit will be available to you on the website. Homework assignments are due at midnight on the day that they are due.

Late Work: You will still be able to access an online homework assignment after the due date. However, you will lose more points for each day that you are late.

Worksheets and In-Class Activities: Each week, there will be a worksheet assigned as homework to follow up on the concepts that we are practicing in the course. These worksheets will be collected and graded. It is important that you work through these worksheets and ask for help as necessary. Problems from these worksheets are a preview for what to expect on tests. Also, at times, there will be in-class activities that are also collected and graded.

Cheating and/or plagiarism: Cheating and/or plagiarism will not be tolerated. A student will receive no credit for the assignment if in the opinion of the instructor the individual has cheated.

Attendance and participation: It is important that you come to class every day and *participate actively*. Arrive on time. Late students not only miss important material but also distract the rest of the class.

Learning mathematics is not a passive activity. As we progress through topics, students will be given problems in class to practice new skills. During this time, all students are expected to have paper out and to be actively working on these math problems with the rest of the class.

Online Portion of Course: This is a hybrid course. We would normally meet three days a week for this course. However, we will meet only twice each week. To make up for the third class meeting, students are expected to do more work on their own. You will be expected to do your homework online and also access other online resources in order to improve your math skills.

If you miss more than two weeks worth of class sessions, you may be dropped. (However, if you decide to drop the course, it is **your** responsibility to make the drop official in the Administrations and Records Office or else possibly receive a grade of F.)

Accommodations for Students with Disabilities:

If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact me as soon as possible.

Please turn off cell phones before the start of every class period.

The use of phones for calls, texts, or other activities is prohibited without previous approval from the instructor.

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|--------------------|-----------------------------------|------------------------------|
| Add Date: | Friday, September 3 rd | Last day to add a course |
| Drop Date: | Friday, October 15 th | Last day to drop this course |
| Holidays: | Monday, September 6 th | Labor Day |
| Final Exam: | Monday, December 13 th | 2:00-3:50 pm |

Course Outline:

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|----------|---|------------|-------------|
| Unit A: | Equations and Inequalities, Graphing, Systems | Chapter 8 | Weeks 1-3 |
| Unit B : | Radical Expressions and Equations | Chapter 9 | Weeks 4-7 |
| Unit C: | Quadratics Equations | Chapter 10 | Weeks 7-9 |
| Unit D: | Functions | Chapter 11 | Weeks 10-12 |
| Unit E: | Logarithmic and Exponential Functions | Chapter 12 | Weeks 12-15 |
| Unit F: | Conic Sections | Chapter 13 | Weeks 15-17 |

COURSE OBJECTIVES:

In the process of completing this course, students will:

- A) use function notation and the properties of lines and linear inequalities.
- B) simplify radical expressions and perform operations on radical expressions.
- C) graph parabolas and solve quadratic equations.
- D) use the properties of exponents and logarithmic functions to change the base of a logarithm.
- E) generalize arithmetic and geometric sequences and find the k^{th} term of a binomial expansion.
- F) manipulate and graph equations of conic sections.

Academic Dishonesty

Students at Reedley College are entitled to the best education that the college can make available to them, and they, their instructors, and their fellow students share the responsibility to ensure that this education is honestly attained. Because cheating, plagiarism, and collusion in dishonest activities erode the integrity of the college, each student is expected to exert an entirely honest effort in all academic endeavors. Academic dishonesty in any form is a very serious offense and will incur serious consequences.

Cheating is the act or attempted act of taking an examination or performing an assigned, evaluated task in a fraudulent or deceptive manner, such as having improper access to answers, in an attempt to gain an unearned academic advantage. Cheating may include, but is not limited to, copying from another's work, supplying one's work to another, giving or receiving copies of examinations without an instructor's permission, using or displaying notes or devices inappropriate to the conditions of the examination, allowing someone other than the officially enrolled student to represent the student, or failing to disclose research results completely.

Plagiarism is a specific form of cheating: the use of another's words or ideas without identifying them as such or giving credit to the source. Plagiarism may include, but is not limited to, failing to provide complete citations and references for all work that draws on the ideas, words, or work of others, failing to identify the contributors to work done in collaboration, submitting duplicate work to be evaluated in different courses without the knowledge and consent of the instructors involved, or failing to observe computer security systems and software copyrights.

Incidents of cheating and plagiarism may result in any of a variety of sanctions and penalties, which may range from a failing grade on a particular examination, paper, project, or assignment in question to a failing grade in the course, at the discretion of the instructor and depending on the severity and frequency of the incidents.