

## **Math 103: Intermediate Algebra, Summer 2013**

**Instructor:** Walid Tayar

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**Phone:** 559-638-3641 ext. 3263 (use email)

**Schedule #:** 70012 M-TH from 8:00am-11:35am in Room FEM 4E

**MYLAB Course ID:** tayar76594

### **Course 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.

### **Prerequisites:**

SUBJECT PREREQUISITES: Mathematics 101 or equivalent.

BASIC SKILLS ADVISORIES: Eligibility for English 126.

**Required text:** George Woodbury, Beginning & Intermediate Algebra, 3rd Edition

You can buy the bundled textbook (which includes the textbook and access code) at the Reedley College Bookstore. Be careful, once you open the kit you will not be able to return the book for a full refund. You can also purchase the access code by itself, without the book. The book is available electronically through the website. All of the work for this class will be done on a website called MyLab for which you will need the access code. Ask for the Math 103 book or access code for Mr. Tayar's class, schedule #70012. **Another option would be to purchase the access code through the website itself. I will discuss all of your options on the first day of class.**

**WHEN SETTING UP YOUR ACCOUNT ON MYLAB, USE YOUR 7-DIGIT REEDLEY COLLEGE ID AS YOUR USERNAME (0123456)**

**YOU MUST BE REGISTERED ON MYLAB BY THE END OF THE DAY ON MONDAY, JUNE 17th OR YOU WILL BE DROPPED! NO EXCEPTIONS!!**

### **Class Notes:**

Notes for this class are available at the bookstore and are required.

**Blackboard:** This course will utilize blackboard for announcements, handouts, assignments, etc. You can access blackboard from the Reedley College homepage or at <http://blackboard.reedleycollege.edu>. Your login and password to blackboard is as follows:

**Login:** "your student ID#"

**Password:** "your student ID#"

### **Course Materials:**

- 4 x 6 note cards (optional)
- Two spiral gridpaper notebooks, Cambridge brand in the bookstore. No other notebooks accepted!
- 3-ring binder for class notes (see above)
- Paper, Pencils, Ruler
- Calculator (non-graphing)

### **Online Homework:**

Online homework assignments are completed online and the assignments can be found at the MyLab website. You may work ahead if you like. Each assignment has a due date. Homework will not be accepted late, but the two lowest homework scores will be dropped to allow for any emergencies or missed assignments. You can access any past due assignments for review, but not to improve your grade. It is important to stay current to be successful in the course!

**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, you can submit your work and the program will save it for you. You can then come back to the assignment and continue from where you left off at another time as long as you do so before the deadline.

### **Notebook:**

You will be required to keep all of your written work from your online homework assignments in a notebook. Your homework will be graded on completeness, neatness, and effort. Problems must be written out in pencil and all work must be shown in order to receive credit. Your final answer for each problem needs to be circled or boxed in. Make sure to write out each problem and solution. Word problems do not need to be written out. The required notebook can be purchased at the book store. This will be a part of your notebook grade and will be collected on the day of the final at the beginning of class and will not be accepted late.

(see attached example of notebook entries)

### **Written Homework:**

There may be written homework assignments for the semester. All work must be shown in order to receive full credit for these assignments. I will answer any HW questions at the beginning of each class. Your homework will be graded on completeness, neatness, and effort. Problems must be written out in pencil and all work must be shown in order to receive credit. I will not accept HW on spiral bound notebook paper. Please staple your HW in the top left corner. If you come to class after the HW has been collected or are absent it will not be accepted for full credit. It is your responsibility to keep up with the pace of the class.

### **In-Class Assignments:**

There will be quizzes, in-class assignments and possibly group projects assigned throughout the semester. No in class assignments can be made up so attendance is very important. These assignments may be included as part of your HW grade.

### **Attendance:**

If you are absent more than once during the first two weeks of the summer session you may be dropped from the course. Three absences over the course of the 6 week session may result in a drop from the course. Attendance is a key factor in your success as a college student. Students are expected to attend all class meetings, be on time, and be in class the entire class session. 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 an F in the course. Also, there are to be no visitors in class for any reason. Pagers, cell-phones, CD/DVD/MP3 players, and any other electronic device must be turned off, silenced, and out of sight before entering class. You will be asked to leave if your phone rings in class. Also, cell phones are NOT to be used as calculators.

**Tardies:**

It is distracting, rude and unfair to classmates and to the instructor when a student is late. Leaving class at anytime during the lecture will not be allowed. Please use the restroom/make phone calls before or after class or at the designated break times. If you leave class at any time, it will count as a tardy. Two tardies will be counted as an absence. You are responsible for telling me, at the end of class, that you were tardy to avoid being marked absent. If you leave class early, you will be marked absent. Students with chronic tardiness may be dropped from the course.

**Exams:**

There will be an exam at the end of each unit, approximately every week. Each exam will be worth 100 points. There are no make-ups for missed exams. No exceptions. Calling the day of the exam and telling me that you cannot make it to class is inexcusable.

**Final Exam:**

A final exam worth 100 points will be given at the end of the summer session during the last week. Your lowest exam score will be replaced with your score on the final if applicable.

ALL CELLPHONES/ELECTRONICS ARE TO BE COMPLETELY OUT OF SIGHT AND TURNED OFF DURING THE EXAMS OR YOU WILL RECEIVE A 0% ON THAT EXAM AND IT WILL NOT BE DROPPED OR REPLACED BY THE FINAL EXAM SCORE. THIS WILL BE COUNTED AS CHEATING (SEE CHEATING POLICY BELOW). NO EXCEPTIONS!!!

**Grading:**

- Homework (Online/Written) will be worth 20% of your overall grade.
- Notebook will be worth 10% of your overall grade
- Exams and Final will be worth 70% (Lowest Exam score will be replaced by Final score)

<u>Percent</u>	<u>Grade</u>
90 - 100	A
80 – 89	B
70 – 79	C
60 – 69	D
0 – 59	F

**Course Outline:**

- Transitions (1 week)
- Radical Expressions and Equations (1 week)
- Quadratic Equations (1 week)
- Functions (1 week)
- Logarithmic and Exponential Functions (1 week)
- Conic Sections (1 week)

### **Special Needs Requests:**

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.

### **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.

**Note: This syllabus is subject to change at the discretion of the instructor.**

## Section 6.1

① Find the greatest common factor

$$77 = 7 \cdot 11$$

$$343 = 7 \cdot 7 \cdot 7$$

$$\text{GCF} = \boxed{7}$$

②

$$66 = 2 \cdot 3 \cdot 11$$

$$78 = 2 \cdot 3 \cdot 13$$

$$\text{GCF} = 2 \cdot 3 = \boxed{6}$$

③

$$12 = 2 \cdot 2 \cdot 3$$

$$28 = 2 \cdot 2 \cdot 7$$

$$24 = 2 \cdot 2 \cdot 2 \cdot 3$$

$$\text{GCF} = 2 \cdot 2 = \boxed{4}$$

④

$$a^6$$

$$a^8$$

$$\text{GCF} = \boxed{a^6}$$

⑤

$$a^7 b^2$$

$$a^7 b^6$$

$$\text{GCF} = \boxed{a^7 b^2}$$

⑥

$$55 = 5 \cdot 11$$

$$35 = 5 \cdot 7$$

$$x^3$$

$$x^2$$

$$\text{GCF} = \boxed{5x^2}$$

⑦

$$3y - 6 = \boxed{3(y-2)}$$

⑧

$$14a^2 + 3a = \boxed{a(14a+3)}$$

⑨

$$315x^2 + 105x + 21$$

$$315 = 3 \cdot 3 \cdot 5 \cdot 7$$

$$105 = 3 \cdot 5 \cdot 7$$

$$21 = 3 \cdot 7$$

$$\text{GCF} = 21$$

$$\frac{315x^2}{21} + \frac{105x}{21} + \frac{21}{21}$$

$$\boxed{21(15x^2 + 5x + 1)}$$