Math 103 WEB: Intermediate Algebra, SPRING 2015

Instructor: Walid Tayar
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Office hours: MTWTH 8:30am-9am in FEM 1K or by appointment
Virtual Office Hour: Friday 8:30am-9:30am via email
My Math Center hours: MW 12:00-12:50pm in FEM 1
Class Schedule #: 55302

Mandatory Meetings If you do not attend the below meetings, you will not be able to make-up the Exams).

A PHOTO ID IS REQUIRED FOR EACH MEETING. YOU WILL NOT BE ALLOWED TO REGISTER FOR THIS CLASS OR TAKE THE MIDTERMS WITHOUT A VALID PHOTO ID.

Orientation: TUESDAY 1/13/2015 from 6-8pm in room FEM 4E
(YOU WILL BE DROPPED IF YOU ARE LATE OR DO NOT ATTEND)
Midterm #1: TUESDAY 2/10/2015 from 6-8pm in room FEM 4E
Midterm #2: TUESDAY 3/24/2015 from 6-8pm in room FEM 4E
Midterm #3: TUESDAY 5/5/2015 from 6-8pm in room FEM 4E
Final: TUESDAY 5/19/2015 from 6-8pm in room FEM 4E

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.

Text: George Woodbury, Beginning & Intermediate Algebra, 3rd Edition
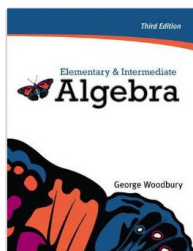
Mandatory Access Code:
All of the work for this class will be done on a website called MyMathLab for which you will need an access code. You can buy the bundled textbook (which includes the textbook and access code for MyMathLab) at the Reedley College Bookstore. Be careful, once you open the kit you will <u>not</u> be

able to return the book for a full refund. You can also purchase the access code by itself, without the book at the bookstore. The book is available <u>electronically</u> through the website. **Another option would be to purchase the access code directly through MyMathLab (you will need a credit card for this option).** More information on how to register will be discussed at the orientation.

WHEN SETTING UP YOUR ACCOUNT ON MYMATHLAB, USE YOUR <u>7-DIGIT REEDLEY COLLEGE ID AS YOUR USERNAME</u> (i.e. 0123456)

YOU MUST BE REGISTERED ON MYMATHLAB BY THE END OF THE DAY ON <u>TUESDAY AUGUST 12</u> OR YOU WILL BE DROPPED!

IF YOU ARE USING THE <u>TEMPORARY ACCESS</u> CODE, IT IS YOUR RESPONSIBILITY TO PAY FOR ACCESS BY THE EXPIRATON DATE OR YOU WILL BE DROPPED! NO EXCEPTIONS!

<u>**Required Course Materials:**</u>
- Non-graphing scientific calculator (i.e. TI-30xIIs)
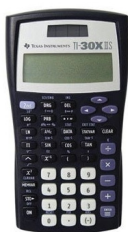
- Pencils/rulers/paper etc.
- 3-hole punched 8.5 x 11in graph paper (bookstore)
- Class notes to be purchased at the bookstore
- TWO 1 to 2-inch 3-ring binders

<u>**Blackboard:**</u> 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 ID: "your student ID#"
Password: "your student ID#"

<u>**Online Homework:**</u>
Online homework assignments can be found at the MyMathLab 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 complete any past due assignments and earn 50% credit on the past due problems up until the unit midterm date. <u>If you do not successfully complete (70% or better) three homework assignments in a row you may dropped.</u> If you are completely inactive online for more than a week (7 days) you may be dropped from the course. 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.

3-Ring Binder
Lecture Notes: You will be required to complete the blank lecture notes for each section by either watching the videos on BlackBoard or following along with my completed notes that have been posted to BlackBoard. These will be submitted in the 3-ring binder along with your homework (see below).

Homework: You will be required to keep all of your written work from your online homework assignments in the 3-ring binder on graph paper.   Each section of your written work will be submitted after each section of the corresponding lecture notes. Your homework will be graded on completeness, neatness, and effort. Clearly highlight the section number at the top of each page and circle the problem numbers down the left side of the page. You may create more columns on each page to fit more work but this needs to be very neat.   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. Any graphing problems need to be written out and graphs must be drawn in the notebook with the appropriate labeling. **Word problems do not need to be written out.**

AT THE END OF EACH CHAPTER IN THE LECTURE NOTES THERE IS A PRACTICE EXAM. THIS IS TO BE COMPLETED ON GRAPH PAPER AND TO BE PLACED IN YOUR BINDER AFTER THE LAST HOMEWORK ASSIGNMENT FOR EACH CHAPTER. THE MIDTERMS WILL BE VERY SIMILAR TO THE PRACTICE EXAMS AND WILL BE A GREAT REVIEW FOR THE MIDTERM.

The required binder and graph paper can be purchased at the book store. The 3-ring binder will be collected at the beginning of class on the date/times of the midterms and final. YOU MUST HAVE TWO BINDERS that way you will always have one in your possession. You can earn up to half credit for a past due binder if turned in to me the next day. This will be a part of your binder grade.

SEE THE ATTACHED HOMEWORK EXAMPLE ON THE LAST PAGE

Attendance:
Students are expected to attend all scheduled class meetings, and be on time. The doors will be locked at 6pm on midterm dates so be there early. I will not allow you to take the midterm if you are late and you will get a 0. 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. ALL ELECTROINC DEVICES MUST BE TURNED OFF AND OUT OF SITE BEFORE ENTERING CLASS. If you need to text or use your phone before class begins, please step outside. You will be asked to leave if your phone rings in class. Also, cell phones are NOT to be used as calculators.

Midterms:

There will be a midterm at the end of each unit, approximately every 4-5 weeks. Each midterm will be worth 100 points. There are no make-ups for missed midterms. No exceptions. Calling the day of the midterm and telling me that you cannot make it to class is inexcusable. YOU MUST HAVE A VALID PHOTO ID AT EACH MIDTERM OR YOU WILL NOT BE ABLE TO TAKE IT AND WILL GET A 0%.

YOU MAY NOT LEAVE CLASS DURING AN EXAM. YOU MUST SUBMIT YOUR EXAM BEFORE YOU LEAVE. 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. THIS WILL BE COUNTED AS CHEATING (SEE CHEATING POLICY BELOW). NO EXCEPTIONS!!

Final Exam:

A final exam worth 100 points will be given at the end of the semester during finals week.

Grading:

- Online Homework will be worth 20% of your overall grade.
- Binder will be worth 10%
- Midterms and Final will be worth 70% of your overall grade.

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

Course Outline:

Algebra Review (3 weeks)
Transitions (2 weeks)
Radical Expressions and Equations (2.5 weeks)
Quadratic Equations (2.5 weeks)
Functions (3 weeks)
Logarithmic and Exponential Functions (3 weeks)
Conic Sections (1 week)

Important Dates:

January 12	(M)	Spring 2015 instruction begins
January 19	(M)	Martin Luther King, Jr. Day observed (no classes held, campus closed)
January 23	(F)	Last day to request an Enrollment Fee Refund
January 30	(F)	Last day to add a full-term class
January 30	(F)	Last day to drop a full-term class to avoid a "W" (in person)
February 1	(SU)	Last day to drop a full-term class to avoid a "W"
February 6	(F)	Last day to change a class to/from a Pass/No-Pass grading basis
February 13	(F)	Lincoln Day observed (no classes held, campus closed)

February 16	(M)	Washington Day observed (no classes held, campus closed)
March 13	(F)	Last day to drop a full-term class (in person)
March 27	(Th)	Deadline to file Intent to Graduate via WebAdvisor
March 30 - April 3		Spring Recess (no classes, campus open)
May 18-22	(M-F)	Final exams week
May 22	(F)	End of spring semester/commencement

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

$77 = 7 \cdot 11$ $\qquad$ GCF = $\boxed{7}$
$343 = 7 \cdot 7 \cdot 7$

②
$66 = 2 \cdot 3 \cdot 11$
$78 = 2 \cdot 3 \cdot 13$
GCF = $2 \cdot 3 = \boxed{6}$

③ $12 = 2 \cdot 2 \cdot 3$
$28 = 2 \cdot 2 \cdot 7$
$24 = 2 \cdot 2 \cdot 2 \cdot 3$
GCF = $2 \cdot 2 = \boxed{4}$

④ a^6
a^8
GCF = $\boxed{a^6}$

⑤ $a^7 b^2$ $\qquad$ GCF = $\boxed{a^7 b^2}$
$a^7 b^6$

⑥ $55 = 5 \cdot 11$ $\qquad x^3$ $\qquad$ GCF = $\boxed{5x^3}$
$35 = 5 \cdot 7$ $\qquad x^7$

⑦ $3y - 6 = \boxed{3(y-3)}$

⑧ $14a^2 + 3a = \boxed{a(14a+3)}$

⑨ $315x^2 + 105x + 21$
$315 = 3 \cdot 3 \cdot 5 \cdot 7$ $\qquad\qquad\qquad \dfrac{315x^2}{21} + \dfrac{105x}{21} + \dfrac{21}{21}$
$105 = 3 \cdot 5 \cdot 7$ $\qquad$ GCF = 21
$21 = 3 \cdot 7$ $\qquad\qquad\qquad\qquad \boxed{21(15x^2 + 5x + 1)}$