

Syllabus – Fall 2012
Intermediate Algebra #52580

Instructor: C. Montgomery
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Class Meets: M-F, 9:00-9:50 P.M.
Room No.: CCI 206
Office Location: FEM 1G/Math Center

Office Hours: M-Th 11:00-11:55

GOALS:

Students will be able apply the knowledge of algebra they acquire in this course to:

1. Graph and solve linear & quadratic equations, exponential & logarithmic equations, systems of equations, perform operations on radicals, functions, complex numbers, and graph conics. 2. Solve problems with applications in life as well as work situations. 3. Achieve oral and technical writing skills to clearly communicate the problem and solution process. 4. Enhance their analytical problem solving ability and increase self-confidence in the ability to use math. 5. Obtain the knowledge base and skills necessary for success in future math coursework and applications in real-life.

Advisories: Eligibility for English 126

Prerequisites: Completion of Beginning Algebra (Math 101) or equivalent with grade of “C” or higher

Text: Elementary & Intermediate Algebra, 3rd Edition, by George Woodbury

Materials: Scientific calculator, binder, graph paper.

Computer Access: Computers with internet access are available in the library and the Math Center for your use. All homework and quizzes will be assigned and worked online in on the Coursecompass Website. If you fail to register with Course Compass by the end of the first week of school and complete all assignments with a score of 70% or higher, you will be dropped from the course! You must have daily access to the internet to take this course.

Grading:

Assignment/Exam	Percent
Tests	60%
Homework Points	30%
Quizzes	5%
Graphing & other in-class assignments	5%

Tests are worth 60% of your grade. Tests cannot be made up. The *final is mandatory*. Your grade can be found on the Coursecompass Website. Leaving class early may be counted as an absence. Please talk to me before class if you need to leave early. At the end of the semester your points will be totaled your final grade will be computed as follows:

Grading Scale:	Grade	Percent
	A	90 -100
	B	80 - 89
	C	70 - 79
	D	60 - 69
	F	Below 60

SPECIAL NEEDS: If you have special needs as addressed by the Americans with Disabilities (ADA) act including alternate media requests, please notify your course instructor immediately. Reasonable efforts will be made to accommodate your special needs.

Homework: *Homework is extremely important.* Your success in this class is dependent upon your ability to work and understand the homework problems. **Do not fall behind!** If you are having difficulty, get help immediately!!! Please let me know if I can help you in anyway. I am available Monday through Friday.

1. Homework is due within a day or two of the date the lecture was given. All due dates are listed on Coursecompass. Late homework will only be accepted up to a certain date. You can check dates on course compass. If late homework is accepted, the penalty is at least a 25% point reduction.
2. Notebooks containing your handwritten homework for all the material the exam covers will be due at the beginning of class the day of your test.
3. If you have technical issues such as how do I enter the solution you can contact Coursecompass (at 1- 800-677-6337 or live support online) or come by the Math Center for assistance.
4. If you need help with the math, ask me at the beginning or end of class, or come by the Math or Tutorial Center. You are responsible for getting help with homework, do not fall behind on your assignments or you may not have time to get help.

Exams:

- a) **The Final Exam will be a comprehensive exam. The Final Exam will be held:**
Wednesday, December 12th, 9:00 A.M.-10:50 P.M.
- b) **Makeup exams will not be given.** With the instructor's permission, you may be able to use the final exam to replace one missed exam or your lowest test score. I will not allow you to drop the final if you miss it or if by my opinion have not given the final your best effort (final score is 20% or more lower than your exam average).
- c) Non-graphing calculators are allowed on all tests.
- d) Cheating on an exam may result in an F in the course or an F on the exam depending on the severity of the offense. **Talking to other students or cell phone use during an exam will be considered cheating.**
For details of the college policy in regard to plagiarism or cheating, see page 52 of the catalog.

Expected Behavior and Attendance

1. **After 3 consecutive absences, you may be dropped from the course.** Please notify me if you are going to be absent. Absences will not be excused under most circumstances. **If you wish to drop the course, it is your responsibility to do so.** You must turn a completed "change of program" form into the attendance office to drop the class.
2. **You can be dropped from the class or have participation/homework points deducted for any of the following behaviors.**
 - A) **Any behavior that is disrespectful of fellow students or the instructor.**
 - B) **Talking while I am talking and/or any distracting behavior.**
 - C) **Failure to cooperate/participate in group-activities.**
 - D) **Leaving class early without prior instructor notification.**
 - E) **Excessive tardiness and/or absences.**
 - F) **Using a cell phone or any electronic device other than a calculator in class (turn it off & put it away).**

Important Dates & Holidays:

Monday, Aug. 13th – Semester begins

Friday, Aug. 24th – Last day to drop a full-term class for a refund

Friday, Aug. 31st – Last day to add a full-time class or drop one and avoid a “W”

Monday, Sept. 3rd – Holiday (Labor Day), Campus Closed

Friday, Sept. 14th – Last day to change grading basis to Pass/No Pass

Friday, Oct. 12th – Last day to drop a full-term class (Letter Grades Assigned after)

Monday, Nov. 12th – Veterans Day, Campus Closed

Wed.-Fri., Nov. 22-23- Thanksgiving Holiday, Campus Closed

Mon-Fri., December 10th -14th , Finals Week

COURSE OBJECTIVES:

THROUGHOUT THE COURSE STUDENTS WILL BE WORKING WITH EQUATIONS OF LINES, LINEAR INEQUALITIES AS WELL AS OPERATIONS ON FUNCTIONS. YOU WILL ALSO WORK WITH PERFORMING OPERATIONS ON AND SIMPLIFICATION OF COMPLEX AND RADICAL EXPRESSIONS. SOLVING AND GRAPHING QUADRATIC EQUATIONS WILL BE COVERED EXTENSIVELY. WE SHALL ALSO EXPLORE THE USE AND APPLICATIONS OF LOGARITHMS AND EXPONENTIAL FORMS AND EQUATIONS AS WELL AS GRAPHING CONIC SECTIONS. IF TIME PERMITS SEQUENCES AND THE BINOMIAL EXPANSION WILL ALSO BE COVERED.

COURSE OUTLINE OF TOPICS

WEEKS 1-3: CHAPTER-SECTIONS 8.1,8.2, 6.1-4,8.3-4; REVIEW OF SOLVING EQUATIONS AND FACTORING, EQUATIONS, FUNCTIONS AND INEQUALITIES WITH ABSOLUTE VALUE, GRAPHING LINEAR AND ABSOLUTE VALUE FUNCTIONS.

WEEKS 4-7: CHAPTER-SECTIONS 9.1, 5.1-2 REVIEW, 9.2-6; RADICALS AND COMPLEX NUMBERS, REVIEW OF LAWS AND PROPERTIES OF EXPONENTS, RATIONAL EXPONENTS, RADICAL EQUATIONS AND THEIR APPLICATIONS.

WEEKS 8-10: CHAPTER-SECTIONS 10.1-6; QUADRATICS AND THEIR GRAPHS.

WEEKS 11-12: CHAPTER-SECTIONS 11.1-11.6; REVIEW OF FUNCTIONS AND THEIR GRAPHS. ALGEBRA OF FUNCTIONS AND INVERSE FUNCTIONS.

WEEKS 13-14: CHAPTER-SECTIONS 12.1-12.6; EXPONENTIAL & LOGARITHMIC FUNCTIONS

WEEKS 15-17: CHAPTER-SECTIONS 13.1-13.4 (14.1 &14.4); GRAPHS OF CONICS, BINOMIAL THEOREM AND SEQUENCES IF TIME PERMITS, REVIEW FOR FINAL.

WEEK 18: FINAL

THIS SYLLABUS IS SUBJECT TO CHANGE AT THE INSTRUCTOR'S DISCRETION.

