

COURSE OUTLINE

DATE: August 2006

INSTRUCTOR: Mary Bradley

MAT 080 INTERMEDIATE ALGEBRA (3 – 2 - 4)

Pre-requisites: MAT 060 and MAT 070, or satisfactory test scores

Co-requisites: RED 080, ENG 095, or satisfactory reading test scores

This course continues the study of algebraic concepts with emphasis on applications. Topics include factoring; rational expressions; rational exponents; rational, radical, and quadratic equations; systems of equations; inequalities; graphing; functions; variations; complex numbers; and elements of geometry. Upon completion, students should be able to apply the above concepts in problem solving using appropriate technology.

TEXT: Intermediate Algebra, Third Edition, Hubbard/Robinson

ISBN: 0-618-22375-4



Intermediate Algebra, Discovery and Visualization, 3/e
Elaine Hubbard, Kennesaw State University
Ronald D. Robinson

MATERIALS NEEDED: Scientific calculator with a 2-line display (TI-30X type model), or a graphing calculator (TI- 83 plus); notebook, open mind, and willing attitude.

If you plan to take additional curriculum math classes, it is strongly recommended that you purchase a TI-83 Plus or TI-84 graphing calculator.

OBJECTIVES:

- To promote algebraic skills in the following topics:
 - Lines, linear equations and systems of linear equations
 - Polynomials, including quadratics
 - Rational and radical expressions
 - Complex numbers
 - Solving equations and inequalities
- To promote the ability to apply the above concepts in problem solving using the appropriate technology
- To work collaboratively

Methods of instruction will include lecture, collaborative work, and computerized aided instruction.

COURSE COMPETENCIES:

The student should be able to demonstrate abilities in:

- Using applications involving linear, rational, radical and polynomial functions
- Algebraic manipulative techniques to solve mathematical equations and inequalities
- Using a graphing calculator for the above applications

If you have a **DOCUMENTED DISABILITY AND THINK YOU MAY NEED ACADEMIC ADJUSTMENTS FOR THIS CLASS**, please see the Student Support Services office as soon as possible. An Educational Support Plan, outlining reasonable classroom adjustments, will be initiated as soon as you present your documentation to the SSS office. **If you will not be needing academic adjustments, you do not have to disclose your disability.** Institutional responsibilities to provide academic adjustments, as governed by ADA and Section 504 of the Rehabilitation Act of 1973, begin after you disclose your disability to the SSS office.

OFFICE: Oaks Hall 101 - C

OFFICE HOURS: 1:00 - 2:00 M-F

PHONE: SCC: 586-4091 Ext. 335 **HOME:** 497-7584

EMAIL: mbradley@southwesterncc.edu

ATTENDANCE:

Class attendance is vitally important to your success in mathematics. Good attendance is generally rewarded by higher exam scores and course grades. Attendance is taken in each class, and you must be present for 80% of your classes, or a resulting grade of CS will be recorded with the registrar, unless arrangements are made with the instructor.

HOMEWORK:

Homework is an essential tool in helping you learn mathematics. Your test grades will directly reflect your homework habits. The total homework assigned for each chapter accounts for 10% of your course grade, or the equivalent of an additional test grade. Homework should be orderly and legible, and you must attempt and check all assignments, and make a second attempt at problems that are incorrect. Questions that you have from homework will be addressed at the beginning of each class period. Homework for each chapter will only be accepted on the day of the chapter test.

*** It is your responsibility to do the homework assigned. The tests are based on the homework.**

No make-up on quizzes and tests, which will be given in class, and announced.

ANYONE CAUGHT CHEATING ON ANY QUIZ OR TEST WILL RECEIVE AN AUTOMATIC *CS*

TESTING:

There will be nine chapter tests, and a cumulative final exam, all announced. The final exam will be given on the last day of the semester. A final exam score of 70, and a final average of 77 or better is required to pass the course. If a student is absent for a test, for a **LEGITIMATE** reason, and the student has made **PREVIOUS** arrangements with the instructor, then a make-up test shall be allowed. Quizzes, however are usually unannounced, and may not be made up.

GRADING SCALE:

93 – 100	A
85 – 92	B
77 – 84	C
Below 77	CS

Chapter Tests (9)	60%
Homework and Notebook	10%
Labs, Quizzes	10%
Final Exam	20%