

**Math 1111**

**College Algebra  
(Sample Syllabus)**

**Fall 2007**

**Instructor:** Professor/Staff  
**Office:** Math/Physics xxxx  
**Office Hours:** Listed hours, or by appointment.  
**Contact Info:**  
    **Phone Number:** (912) xxx-xxxx  
    **E-mail:** profstaff@georgiasouthern.edu  
    **Fax number:** (912) 681-0654

**Credit Hours:** 3  
**Location and Time:** Math/Physics xxxx, MWF xx-xx  
**Prerequisite Courses:** Two years of high school algebra or equivalent.

**Textbook:** Algebra & Trigonometry (Third edition) by Robert Blitzer

**Calculator:** A TI-83 or TI-83 plus calculator is required for the course. Sharing of calculators on quizzes or exams will not be permitted.

**Course Description:** A functional approach to algebra that incorporates mathematical modeling of real data, business applications and use of appropriate technology. Emphasis will be placed on the study of linear, quadratic, piece-wise defined, rational, polynomial, exponential and logarithmic functions. Prerequisite: Two years of high school algebra or equivalent.

**Course Objectives:**

The student will:

1. learn basic mathematical functions, their graphs and properties.
2. be able to perform basic algebraic techniques in solving equations and inequalities.
3. use appropriate technology in problem solving and graphing.
4. be able to use real data in a mathematical model.

For General Education Objectives, see

[http://academics.georgiasouthern.edu/provost/instruction/gened\\_outcomes.html](http://academics.georgiasouthern.edu/provost/instruction/gened_outcomes.html)

**Assessment of Course Objectives:** (Varies by Instructor) Student achievement will be measured through the use of homework assignments, announced or unannounced quizzes, three or four semester exams, and a comprehensive final exam.

**Grading Policy:** (varies by instructor) Grades will be assigned based on the percentage of points earned from some measurement of student achievement of course objectives. The course grading scale will be

90%-100% A; 80%-89% B; 70%-79% C; 60%-69% D; <60% F

**Make-up Policy:** (varies by instructor) No make-up exams will be given. When a student misses an exam the score from the final exam will be substituted for the missing exam score. No late homework will be accepted.

**Attendance Policy:** (varies by instructor) Students are expected to attend each class meeting, but attendance will not be taken. A student who misses class is responsible to find out what was discussed and learn the material that was covered on the missed day. The instructor is **not** responsible for re-teaching material missed by a student who did not attend class.

**Academic Dishonesty Policy:** Academic dishonesty is a very serious offense and will not be tolerated. Cheating in this class includes the use of notes, books, or other students on quizzes or exams, or the improper use or sharing of a calculator on a quiz or exam. Any student caught cheating is subject to a grade of “F” for the course and will be reported to the University Judicial Officer. For more information, visit the Student Guide at <http://students.georgiasouthern.edu/sta/guide>.

**Civility Statement:** Each student is expected to follow the Student Conduct Code, with regards to appropriate behavior in the classroom. Inappropriate behavior includes any activity that may detract from your fellow classmate’s learning experience or in the instructor’s ability to conduct class. Electronic devices such as cellular phones, pagers, and media players must be off while the student is in the classroom. Please respect your peers by not being disruptive in class.

**Disability Policy:** If you have a physical, psychological, and/or learning disability, which may affect your performance in this class, please contact the Student Disability Resource Center as soon as possible. The Center will determine appropriate accommodations based on testing and medical documentation. See their website at <http://students.georgiasouthern.edu/disability/>.

**Additional Help:** The Academic Success Center offers free peer tutoring during the week. Contact the tutorial centers for exact hours at (912) 681-0321 or visit their website at <http://academics.georgiasouthern.edu/success/>.

**University MATH 0091 Policy:** MATH 0091 is a required course for any student who has made below the grade of C in MATH 1111 previously at GSU. Students required to take MATH 0091 must take MATH 0091 in the same semester as MATH 1111 until a grade of C or better is earned in MATH 1111. If a student required to take MATH 0091 takes MATH 1111 during the summer semester, the student must take MATH 1111 and MATH 0091 during the long term.

**Important Dates:**

October 8:	Last day to drop without academic penalty
November 21-23:	Thanksgiving Holiday
November 29:	Last day of classes
December 3 - 6:	Final Exams

**Tentative Schedule for Math 1111 – College Algebra**

Week 1		Intro/Overview
	Section 1.1	Graphs and Graphing Utilities (optional)
	Section 1.2	Linear Equations and Rational Equations
	Section 1.3	Models and Applications
Week 2	Section 1.4	Complex Numbers
	Section 1.5	Quadratic Equations
	Section 1.6	Other Types of Equations

Week 3	Section 1.7 Review Test #1	Linear Inequalities and Absolute Value Inequalities
Week 4	Section 2.1 Section 2.2	Basic Functions and Their Graphs More on Functions and Their Graphs
Week 5	Section 2.3 Section 2.4	Linear Functions and Slope More on Slope
Week 6	Section 2.5 Section 2.6	Transformations of Functions Combinations of Functions; Composite Functions
Week 7	Section 2.7 Review Test #2	Inverse Functions
Week 8	Section 3.1 Section 3.2	Quadratic Functions Polynomial Functions and Their Graphs
Week 9	Section 3.3 Section 3.4	Dividing Polynomials: Remainder and Factor Theorems Zeros of Polynomial Functions
Week 10	Section 3.5 Section 3.6	Rational Functions and Their Graphs Polynomial and Rational Inequalities
Week 11	Review Test #3	
Week 12	Section 4.1 Section 4.2	Exponential Functions Logarithmic Functions
Week 13	Section 4.3 Section 4.4	Properties of Logarithms Exponential and Logarithmic Equations
Week 14	Section 4.5  Review Test #4	Exponential Growth and Decay; Modeling Data (cover lightly)
Week 15	Catch up time/Review for Final Exam	