Course Syllabus
Math 1111-13: College Algebra (3 credit hrs.)
Fall Term, 2016
University of West Georgia

Instructor: Dr. David G. Robinson, Humanities #221, 678-839-4137
E-Mail: davdr@westga.edu
Office Hours: T/R 10:10 – 11 a.m., 11:10 – 12 noon, 1 – 1:50 p.m., 3:45 – 5:15 p.m.

Class Meetings: T/TH 8 – 9:15 a.m., Boyd #305
These will consist primarily of lectures and question-and-answer sessions. All reading will be assigned in advance of the meeting thereon. (See attached schedule.)

Text/Resources: Required: ALEKS account for this course, which includes an e-version of the textbook listed below, obtained by registering at www.aleks.com with the course code 6GWJQ-YJDP3 and then purchasing your own access code ($50 if done online)
Required: Graphics calculator (TI-83/84 or an equivalent)

Prerequisites: High-school algebra (and a recommended score of 45 or better on the ALEKS initial assessment check.)

Course Description: This course is a functional approach to algebra that incorporates the use of technology. Emphasis will be placed on the study of functions, and their graphs, inequalities, and linear, quadratic, piece-wise defined, polynomial, rational, exponential and logarithmic functions. Appropriate applications will be included.

Main Topics: Algebraic Expressions and Relations (§ R1 – R6, 1.1 – 1.7): Types of real numbers, intervals, inequalities, absolute values, laws of arithmetic, expansion and factoring of algebraic expressions, , laws of exponents and radicals, linear and quadratic equations, linear and absolute value inequalities, applications.
Functions and Graphs (§ 2.1-2.8, 9.1 – 9.2): Coordinates, graphs, circles, functions, rate of change, slope, equations of lines, linear growth, linear transformations of graphs, operations on functions, inverse functions, systems of linear equations, applications.
Polynomial functions (§ 3.1-3.4, 3.8): Complex numbers, quadratic functions and parabolas, polynomials and their graphs, polynomial factorization, zeros of polynomials, direct and inverse proportionality, applications.
Exponential and logarithmic functions (§ 4.1- 4.6): Exponential functions, log functions, graphs, exp/log equations, exponential growth and decay models.

Objectives: Besides developing and deepening your understanding of the topics mentioned above, there are some general skills you should improve upon along the way in order to be able to carry what you learn in this course into future courses of study and future work situations. These include:
• use of appropriate mathematical terminology and notation
• construction and use of tables, graphs and formulas
• recognition of function types
• equation-solving (by hand and by machine)
• curve sketching (on paper as well as on a calculator)
• translation of practical problems into mathematical models and vice versa
Evaluation Procedures: Your understanding of the material and your progress toward the aforementioned objectives will be evaluated on the basis of your performances on graded ALEKS-assisted homework from the text and five written tests. (See attached schedule for details.)

Practice homework problems from the text, from class or in ALEKS will be assigned regularly but not collected or graded. These are for practice, self-evaluation and class discussion. Be prepared to discuss them as soon as possible after they are assigned.

Grades: My scale for converting numerical grades (i.e., percentage points) to letter grades will be as follows:

- 89-100 A
- 77-88 B
- 65-76 C
- 50-64 D
- below 50 F

Your final grade will be based on your graded homework assignments (15%), four test scores (15% each) and a comprehensive final exam (25%). However, you may also earn up to 4 points of ‘extra credit’ by maintaining a superior record of attendance - i.e., one point per period of zero absences from class meetings between successive tests. [Note: An absence here means a class day in which you are not present (in body or mind!) for the duration of the class meeting, regardless of the reason.]

Important Policies and Reminders:

- Attendance is important! However, should you find for some reason that you must miss a class meeting, remember that you are still responsible for any and all material you may have missed during your absence.
- Cell phones should be turned off during class meetings. If you need to make or receive a call/text, please excuse yourself from the class and take care of your business outside the classroom.
- All homework submitted for a grade must be your own work and must be turned in on time to be graded.
- Tests must be taken at the prescribed times (see attached schedule), except by prior permission from the instructor, which will only be given under the direst of circumstances (serious illness, e.g.). In order for you to obtain such permission, I must be notified of your “dire circumstances”, by e-mail, phone, or otherwise, before the test is over. Otherwise you will almost certainly receive a score of zero for that test.
- If you find yourself falling behind in the course, remember that there are plenty of folks around who are willing to help, if you just ask. So do not delay in seeking out assistance and/or advice from someone (the Instructor, a tutor, etc.) who is competent in the subject area and who has your best interests at heart! The Math Tutoring Center is in Boyd #205 and is open daily at the posted times.
- All electronic correspondence between student and instructor about matters pertaining to this course should be by way of your UWG e-mail account.
- I assume you will abide by the SUWG Honor Code. So will I! Anyone caught cheating - which means representing someone else’s work as your own - will receive a grade of zero for that assignment/test.
- Please carefully read the information at the following link:
  http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf
  It contains important material pertaining to your rights and responsibilities in this class.

Disabilities Act/Accessibility for the Course:
If you are a student who is disabled as defined under the Americans with Disabilities Act and require assistance or support services, please notify me and provide me with a copy of your packet from Student Services. The university will provide you with resources for any audio/visual needs that you may have with the learning management system or course content. Please contact UWG Accessibility Services for more information.