MATH 1314
Student Course Document – Revised Spring 2012

1. **Course Title:** College Algebra

2. **Prerequisite:** Intermediate Algebra (Math 0310) or placement by testing
   **Co-requisite:**
   English 0305 or 0316 (developmental reading) or placement into college Level English by testing
   English 0307 or 0326 (developmental writing) or placement into college Level English by testing

3. **Credit:** Three (3) Semester Hours

4. **Materials Needed:**

   4.1 **Textbook:** *College Algebra,* Custom version for North Harris College.
       To download this textbook for free go to the math department website at [http://nhmath.lonestar.edu](http://nhmath.lonestar.edu)*. Click on “Course Resources” and then click on “Math 1314: College Algebra”. *(This website information will soon be moving to [http://lonestar.edu/blogs/lsc-northharris](http://lonestar.edu/blogs/lsc-northharris).*

   4.2 **Calculators:** Usage in class is at the discretion of the instructor though a scientific calculator is necessary in certain parts of the course.

   4.3 **Supplies:** Graph paper is optional. However, students are expected to create graphs that are neat and labeled correctly.

5. **Purpose:**

   College Algebra is designed to fulfill the minimum math requirements for graduation from a state four-year college and to develop the algebraic skills and concepts needed for study in future math courses.

6. **Major Course Outcomes:**

   6.1 To solve quadratic and rational inequalities
   6.2 To **review** the methods for solving quadratic equations, equations in quadratic form, and radical equations
   6.3 To develop methods for solving equations and inequalities involving absolute value
   6.4 To develop an understanding of the concept of a function including topics such as the domain and range of a function, functional notation, piecewise-defined functions, function transformations, operations with functions, and the inverse of a function
   6.5 To study techniques of graphing functions; including polynomial, rational, exponential and logarithmic functions.
   6.6 To introduce the techniques for graphing quadratic equations in two variables; included are ellipses and hyperbolas with centers at the origin and circles
   6.7 To study the properties of logarithms and their applications in simplifying expressions and solving exponential and logarithmic equations
   6.8 To develop strategies for finding zeros of polynomial functions; included in this study are the Rational-Roots Theorem and the Fundamental Theorem of Algebra
7. **General Course Outline:**

   Textbook sections 2.4, 2.5, 2.7, 2.8, 3.1, 3.2, 3.4, 3.5, 3.6, 3.7, 3.8, 3.9, 3.10, 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.8, 4.9, 5.1, 5.2, 5.3, 5.4, 5.5, 6.7, 6.3 (optional)

8. **Evaluation:**

   The allowable final grades in Math 1314 are A (final average of 90 to 100%), B (final average of 80 to 89%), C (final average of 70 to 79%), D (final average of 60 to 69%), F (final average below 60%), and I (reserved for students unable to complete the last part of the course due to illness or other extenuating circumstances). Note that I’s are not to be given to a student who simply gets behind and cannot get caught up.

10. **MyLoneStar:**

    MyLoneStar gives students, faculty, and staff access to important academic information. It allows a student to register, search for courses, obtain financial aid information, pay tuition and fees, and view course grades. From [www.lonestar.edu](http://www.lonestar.edu), click on MyLoneStar at the top right corner. Follow the instructions for securing your user name and password under the Self-Service Tools. Please contact the helpdesk at 1-866-614-5014 or send an email to [ots@lonestar.edu](mailto:ots@lonestar.edu) for further assistance.

11. **Withdrawal Policy/Student Drop Limit:**

    Students who enrolled in Texas public institutions of higher education as first-time college students during the Fall 2007 term or later are subject to section 51.907 of the Texas Education Code, which states that an institution of higher education may not permit a student to drop (withdraw with a grade of “W”) from more than six courses. This six-course limit includes courses that a transfer student has previously dropped at other Texas public institutions of higher education if they fall under the law.

    Students should be sure they fully understand this drop limit before they drop a course. Please visit the admissions office or counseling/advising center for additional information and assistance.

12. **Academic Integrity:**

    The Lone Star College System upholds the core values of learning: honesty, respect, fairness, and accountability. The system promotes the importance of personal and academic honesty. The system embraces the belief that all learners—students, faculty, staff, and administrators—will act with integrity and honesty and must produce their own work and give appropriate credit to the work of others. Fabrication of sources, cheating, or unauthorized collaboration is not permitted on any work submitted within the system.

    The consequences for academic dishonesty are determined by the professor and academic dean, or the professor and chief student services officer and can include but are not limited to:

    1. Having additional class requirements imposed,
    2. Receiving a grade of zero or “F” for an exam or assignment,
    3. Receiving a grade of “F” for the course,
    4. Being withdrawn from the course or program,
    5. Being expelled from the college system.
13. **Division Counselor:**

Rhonda Cannon, Counselor for Math and Natural Sciences, is available in Winship 115G to assist you in meeting your academic, career, and personal goals. Confidential counseling services are available by appointment to help you overcome academic challenges, make a career choice, plan your transfer, and to gain self-understanding. To schedule an appointment call 281-618-5480 or email rhonda.cannon@lonestar.edu or stop by Winship 115G.

* It is the responsibility of the student to drop a class by “W” day if he/she desires.

* Students with disabilities, who wish to request accommodations in this class, must notify the Disability Services Office as soon as possible so that the appropriate arrangements may be made. Students requesting accommodations must provide documentation of his/her disability to a Disability Services counselor. For more information, call or visit the Disability Services Office at SB 110, (281) 618-5481.