MATH 0310
Student Course Document – Revised Spring 2012

1. **Course Title:** Intermediate Algebra

2. **Prerequisite:** Introductory Algebra (Math 0308) or placement by testing

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

4. **Materials Needed:**
   4.1 **Textbook:** Intermediate Algebra, 4th or 5th ed. Weltman/Perez/Tiballi
   4.2 **Calculator:** Generally, instructors set their own policies concerning calculator usage. Calculators are not allowed on the departmental final exam.

5. **Purpose:**

Intermediate Algebra is designed to provide the student with background in fundamental algebra and skill in mathematical manipulation needed for a further study of mathematics and other courses in the science and technical areas.

6. **Major Course Outcomes:** (percents indicate the weight of that outcome on the departmental final exam)

   **Outcome 1:** Factor higher degree polynomials. (10%)
   **Outcome 2:** Solve quadratic equations using factoring. (5%)
   **Outcome 3:** Perform operations and solve equations and applications involving rational expressions. (15%)
   **Outcome 4:** Perform operations and solve equations involving radicals and rational exponents. (15%)
   **Outcome 5:** Perform operations on complex numbers. (5%)
   **Outcome 6:** Recognize functions defined by sets of ordered pairs, graphs and equations and apply function notation to applications. (15%)
   **Outcome 7:** Sketch graphs of linear relations and determine a linear equation in two variables given pertinent information (15%)
   **Outcome 8:** Solve inequalities in one and two variables. (5%)
   **Outcome 9:** Solve quadratic equations using methods including the quadratic formula, completing the square, and extracting roots; graph quadratic equations. (10%)
   **Outcome 10:** Solve applications using systems of linear equations in two variables. (5%)

7. **General Course Outline:**

The following textbook sections will be covered: 3.3, 3.4, 3.5, 3.6, 3.7, 3.8, 4.1, 4.2, 4.3, 4.4, 4.5, 4.8, 4.9, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 2.2, 6.1, 6.2, 6.3, 6.4, 6.5, 6.7, 7.3, 7.4, 7.5, 7.6, 9.3

8. **Evaluation:**

All Math 0310 students at Lone Star College – North Harris will take a common final exam. This exam will include all major outcomes for the course. These outcomes are listed above along with the number of points the questions on each outcome will count on the final exam, as well as a short description of each outcome. All students will have access to a complete review for this final exam through the department website.
The score a student makes on the final exam will count 20% of their final average in the course. In addition, students MUST have a score of 50% or higher on this final exam to be eligible to receive a final grade of A, B, or C. Students who score less than a 50% on this final exam will automatically receive a grade of IP or F ** and will have to repeat the course.

**A grade of IP will only be given to students who continue to participate in class. Participation will be spelled out clearly in the course syllabus and is related to attendance, performance on homework, and participation in class.

9. **Computer Lab Requirement:**

All Math 0310 students have a computer lab requirement for the course. These computer assignments can be completed in one of the labs on campus or at home. In general, students can expect to spend 1 to 2 hours per week on these assignments. The instructor will explain where to find the labs on the LSC-NH network, which labs to complete, due dates on labs, and how to complete the labs at home.

10. **Take a Teacher Home Videotapes:**

Videotapes created in-house tailored to each Math 0310 section covered in the course. Students may check these out at the LSC-NH Library Circulation Desk to take home or at the Main Desk in the Learning Center (LC) to view in the LC.

11. **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, 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 for further assistance.

12. **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.

13. **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.

14. **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.