MATH 0310

Student Course Document - Revised Spring 2010

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* 5th Elayn Martin-Gay w/ My Math Lab Supplement
   4.2 Calculator Usage: Generally, instructors set their own policies concerning calculator usage.

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: 3.1 (optional), 3.2, 3.3, 3.4, 3.5, 3.7, 4.1, 4.2, 4.3, 4.5, 5.1, 5.2, 5.5, 5.6, 5.7, 5.8, 6.1, 6.2, 6.3, 6.4 (optional), 6.5, 6.6, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7, 8.1, 8.2, 8.3, 9.1
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 below 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. **MyRecords:**

MyRecords gives students, staff, and the community access to our databases. It allows a student to register online, look up a course schedule, get information regarding financial aid status, view unofficial transcripts, search for classes and get final semester grades for a specific term. Faculty use MyRecords for Mid-term and Final Grading. Go to [http://www.lonestar.edu/northharris](http://www.lonestar.edu/northharris) or [http://myrecords.lonestar.edu/](http://myrecords.lonestar.edu/) from your internet browser. Click on MyRecords in the center box. Follow the instructions for securing your user name and password. Call 281-618-5486 or 832-813-6600 or email NorthHarris.HelpDesk@lonestar.edu or District.HelpDesk@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:**

Lone Star College System is committed to a high standard of academic integrity in the academic community. In becoming a part of the academic community, students are responsible for honesty and independent effort. Failure to uphold these standards includes, but is not limited to, the following: plagiarizing written work or projects, cheating on exams or assignments, collusion on an exam or project, and misrepresentation of credentials or prerequisites when registering for a course. Cheating includes looking at or copying from another student’s exam, orally communicating or receiving answers during an exam, having another person take an exam or complete a project or assignment, using unauthorized notes, texts, or other materials for an exam, and obtaining or distributing an unauthorized copy of an exam or any part of an exam. Plagiarism means passing off as one's own the ideas or writings of another (that is, without giving proper credit by documenting sources). Plagiarism includes submitting a paper, report or project that someone else has prepared, in whole or in part. Collusion is inappropriately collaborating on assignments designed to be completed independently. These definitions are not exhaustive. When there is clear evidence of cheating, plagiarism, collusion or misrepresentation, a faculty member will take disciplinary action including but not limited to: requiring the student to retake or resubmit an exam or assignment, assigning a grade of zero or “F” for an exam or assignment, or assigning a grade of “F” for the course. Additional sanctions including being withdrawn from the course/program or being expelled from school may be imposed on a student who violates the standards of academic integrity.

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 A 104, (281) 618-5481.