I. **Course Information**

**Meeting Time & Place:** TR 11:00 AM – 12:15 AM; CS115  
**Instructor:** Sheri Asbury, MS  
**Office:** CI357  
**Office Phone:** (361)825-3265  
**Email:** sheri.asbury@tamucc.edu  
**Office Hours:** TBA

II. **Course Description**

The course continues the development of algebra from MATH 0399, Intermediate Algebra. A review of properties of numbers and linear equations and inequalities is included. Topics include quadratic equations, inequalities, graphs, logarithms and exponential functions, polynomial equations, system of equations, and matrices.

III. **Prerequisites**

Intermediate Algebra (Math 0399) or placement into College Algebra.

IV. **Text and Other Supplies Required**

The textbook for the class is *College Algebra, 11th Edition* by Margaret Lial, John Hornsby and David Schneider plus MyLabsPlus Student Access Kit. A TI83plus (or better) graphing calculator is also be required. The MyLabsPlus access code can be purchased with the textbook in a bundle at the TAMU-CC bookstore.

V. **Student Learning Outcomes**

1) Solve linear equations (with specific unknown variables) and inequalities, recognize and create graphs of linear functions and interpret solve linear models.  
2) Solve quadratic equations (includes circles and variations) and inequalities, recognize and create graphs of quadratic functions and interpret and solve quadratic models.  
3) Solve polynomial equations and inequalities, recognize and create graphs of polynomial functions and interpret and solve polynomial models.  
4) Use exponential expressions and functions to model real world situation and to solve abstract exponential equations.  
5) Use logarithmic expressions and functions to model real world situations and to solve abstract logarithmic equations.  
6) Model with systems of equations with two variables and solve them using the method of substitution, graphing or elimination with backward substitution.  
7) Apply a general understanding of the use of inverse functions (their domains and ranges) and procedures to solve real-world and abstract equations and models.

VI. **Instructional Methods and Activities**

Students will be shown models of solutions and will work independently and in groups to demonstrate mastery. Students will use MyLabsPlus independently to complete homework assignments. At the end of the semester, students will show mastery by passing assignments, skills tests and/or the final exam with a score of 60% or better.
VII. Evaluation and Grade Assignment

Homework – 20%  *Homework will be available all semester; however, a 10% deduction will be taken from problems worked after the due date.

Quizzes – 20%  *Quizzes may be taken multiple times prior to the quiz deadline.

Tests – 30%  *Missed tests may not be made up. The Final Exam grade may be used to replace one missed test grade.

Final Exam – 30%  *The Final Exam may not be rescheduled and must be taken in accordance with the college’s Final Exam Schedule.

Grading Scale:
A = 90% or more
B = 80% to 89.9%
C = 70% to 79.9%
D = 60% to 69.9%
F = below 60%

VIII. Tentative Schedule of Topics

| 1.1 | Linear Equations |
| 1.2 | Applications and Modeling with Linear Equations |
| 1.4 | Quadratic Equations |
| 1.5 | Applications and Modeling with Quadratic Equations |
| 1.6 | Other Types of Equations and Applications |
| 1.7 | Inequalities |
| 1.8 | Absolute Value Equations and Inequalities |

Quiz – Review for Chapter 1 Test
Test over Chapter 1

| 2.1 | Rectangular Coordinates and Graphs |
| 2.2 | Circles |
| 2.3 | Functions |
| 2.4 | Linear Functions |
| 2.5 | Equations of Lines |
| 2.6 | Graphs of Basic Functions |
| 2.7 | Graphing Techniques |
| 2.8 | Function Operations and Composition |

Quiz – Review for Chapter 2 Test
Test over Chapter 2

| 3.1 | Quadratic Functions |
| 3.4 | Polynomial Functions: Graphs, Applications, and Models |
| 3.5 | Rational Functions: Graphs, Applications, and Models |
| 4.1 | Inverse Functions |
| 4.2 | Exponential Functions |
| 4.3 | Logarithmic Functions |
| 4.4 | Evaluating Logarithms |
| 4.5 | Exponential and Logarithmic Equations |
| 4.6 | Applications of Exponential Growth and Decay (Optional) |

Quiz – Review for Chapter 3 and 4 Test
Test over Chapter 3 and 4

| 5.1 | Systems of Linear Equations |
| 5.2 | Matrix Solutions of Linear Systems |
| 5.3 | Determinant Solutions of Linear Systems |
IX. Class Policies
1. I expect each student to attend all classes. Attendance is mandatory. Please save absences for emergencies.
2. If you are more than 20 minutes tardy you are considered absent.
3. Each absence counts for 2% of your grade. If you have 5 unexcused absences*, you will receive no credit for the attendance portion of your grade.
4. If you have a question regarding your final course grade, you have one week after grades are reported to ask me questions.
5. No make-up for the final exam. Please plan ahead.
6. Cell phone must be turned off during class.
*All absences are considered unexcused unless I receive a written excuse or other form of documentation. Appeals are possible only if I receive documentation (doctor notes, receipts, etc.) in written form in a timely manner and I accept it.

Responsibility
1. You are responsible for assigned work and test preparation.
2. You are responsible for obtaining required supplies and bringing them to class.
3. You are responsible or organizing your time so that you can study and complete homework as necessary outside of class.
4. You are responsible for any work missed if absent.
5. You are responsible for seeking help in the CASA Math Lab or from a private tutor, coming to office hours or attending a student group if you are having difficulty with a skill or concept.

X. Dropping A Class
I hope you do not have to drop this class. Sometimes situations occur that make dropping a course necessary. However, you should always talk to me prior to dropping. We maybe able to work out a plan that will assist you in completing the course. Should dropping the course be the best solution, you must initiate the process to drop the course by going to the Student Services Center and filing out a course drop form. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class. The last day to drop a class with an automatic grade of “W” during this term is 11/4.

XI. Academic Honesty
University students are expected to conduct themselves in accordance with the highest standards of academic honesty. Academic misconduct for which a student is subject to penalty includes all forms of cheating, such as illicit possession of examinations or examination materials, forgery or plagiarism.

XII. Disability Services
Texas A&M University – Corpus Christi complies with the Americans with Disabilities Act in making reasonable accommodations for qualified students with disabilities. If you suspect that you may have a disability (physical impairment, learning disability, psychiatric disability, etc.), please contact
the Services for Students with Disabilities Office, located in Driftwood 101, at 825-5816. If you need disability accommodations in this class, please see me as soon as possible.

XIII. Grade Appeals Process

As stated in University Rule 13.02.99.C2, Student Grade Appeals, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Rule: 13.02.99.C2, Student Grade Appeals, and University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules website at http://www.tamucc.edu/provost/university_rules/index.html. For assistance and/or guidance in the grade appeal process, students may contact the Office of Student Affairs.