Course Information
Meeting Time & Place: TR 12:30 – 1:45; IH267
Instructor: Sheri Asbury, MS
Office: CI351
Office Phone: 
Email: sheri.asbury@tamucc.edu
Office Hours: TBA

Course Description
This course covers quadratic equations, inequalities, graphs, logarithms and exponential, theory of polynomial equations, systems of equation. This course counts as the mathematics component of the University Core Curriculum.

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

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.

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.

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.
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%

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 |
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. If you have a question regarding your final course grade, you have one week after grades are reported to ask me questions.
4. No make-up for any exam including the final exam. Please plan ahead.
5. Any student arriving after the first student has turned in a test or final exam may be denied the ability to take the test or final exam.
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 for 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.

Notice to Students with Disabilities
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please call or visit Disability Services at (361) 825-5816 in Corpus Christi Hall 116.

If you are a returning veteran and are experiencing cognitive and/or physical access issues in the classroom or on campus, please contact the Disability Services office for assistance at (361) 825-5816.

Grade Appeal Process
As stated in University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures, 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 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, and the College of Science and Engineering Grade Appeals webpage (http://sci.tamucc.edu/students/GradeAppeal.html). For assistance and/or guidance in the grade appeal process, students may contact the chair or director of the appropriate department or school, the Office of the College of Science and Engineering Dean, or the Office of the Provost.

**Academic Integrity/Plagiarism**

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, falsification, forgery, complicity or plagiarism. (Plagiarism is the presentation of the work of another as one’s own work.) In this class, academic misconduct or complicity in an act of academic misconduct on an assignment or test will result in a zero for that assignment or test.

**Dropping a Class**

I hope that you never find it necessary to drop this or any other class. However, events can sometimes occur that make dropping a course necessary or wise. Please consult with me before you decide to drop to be sure it is the best thing to do. Should dropping the course be the best course of action, you must initiate the process to drop the course by going to the Student Services Center and filling out a course drop form. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class. Nov 7th is the last day to drop a class with an automatic grade of “W” this term.

**Classroom/professional behavior**

Texas A&M University-Corpus Christi, as an academic community, requires that each individual respect the needs of others to study and learn in a peaceful atmosphere. Under Article III of the Student Code of Conduct, classroom behavior that interferes with either (a) the instructor’s ability to conduct the class or (b) the ability of other students to profit from the instructional program may be considered a breach of the peace and is subject to disciplinary sanction outlined in article VII of the Student Code of Conduct. Students engaging in unacceptable behavior may be instructed to leave the classroom. This prohibition applies to all instructional forums, including classrooms, electronic classrooms, labs, discussion groups, field trips, etc.

**Statement of Academic Continuity**

In the event of an unforeseen adverse event, such as a major hurricane and classes could not be held on the campus of Texas A&M University–Corpus Christi; this course would continue through the use of Blackboard and/or email. In addition, the syllabus and class activities may be modified to
allow continuation of the course. Ideally, University facilities (i.e., emails, web sites, and Blackboard) will be operational within two days of the closing of the physical campus. However, students need to make certain that the course instructor has a primary and a secondary means of contacting each student.