I. COURSE INFORMATION

Instructor: Dr. Jeff Lyons
Office: CI 357
Office Phone: (361) 825-3265
Office Hours: TBA
Email: Jeff.Lyons@tamucc.edu
Website: sci.tamucc.edu/~jlyons
Time & Location: MWF 8-8:50 AM in CS-114
Final Exam: Friday, December 9 8-10:30 AM in CS-114

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. COURSE PREREQUISITES

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

IV. COURSE MATERIALS

Required: Unused access code for online MyLabsPlus and a graphing calculator (TI-83 Plus or better).

Recommended: Physical copy of College Algebra by Lial, et al. However, an electronic access to the book comes with the one year MLP subscription.

The MLP access code can be purchased online with a credit card or bundled with a physical copy of the textbook at the TAMU-CC bookstore.

V. COURSE OBJECTIVES AND GOALS

The student learning outcomes are:
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

Instruction for this course includes lectures and discussions of mathematical concepts, demonstration or problem solving techniques using example problems, class discussion, and application of concepts involving class, group, and/or individual activities.

VII. EVALUATION AND GRADE ASSIGNMENT

The methods of evaluation and the criteria for grade assignments are:

- Homework: 25%
- Quizzes: 15%
- Chapter Exams: 40%
- Final Exam: 20%

Grading Scale - Grades will be no stricter than:

- A = 90 – 100
- B = 80 – 89.99
- C = 70 – 70.99
- D = 60 – 69.99
- F = 59.99 or below

No special options, assignments, or alternative grading schemes will be considered for individual students. All graded materials returned to the student are the sole responsibility of the student and must be resubmitted to the professor to receive consideration in grading disputes. The sharing of calculators and other materials during exams is not permitted.

Homework: Individual assignments are made online through MyLabsPlus. Students will solve and submit completed homework assignments online through MLP. Homework will be assigned at the end of each section and have a due date. It is the students' responsibility to understand when an assignment is due. This information is easily found once logged into MLP. Some assignments will have a “late” due date. The password for working an assignment after the due date is “late”. Any work done late will incur a penalty of 30% from the final score. The highest grade a student can receive once doing late work is 70% no matter what the original score was. Therefore, it is in your best interest to finish the assignment before the due date. Do not work an assignment late unless you are willing to accept a 70 as the maximum score. Time extensions for homework will not be given for any other circumstances, happenings, or individual student situations, period. It is also advisable to work extra problems out of the textbook’s exercise section for more practice, and it is the discretion of the professor to assign extra homework at any time. A few homework assignments will be dropped at the end of the semester. Homework is worth 25% of the course grade. Here is the website link: tamucc.mylabsplus.com. Helpful information on registering with MLP can be found here: http://sci.tamucc.edu/~jlyons/mymathlab-mml-2

Quizzes: Quizzes will be administered online through MLP. Quizzes will open each week and will have a due date a few days later. Once you begin the quiz, you will not be able to stop and return. DO NOT SUBMIT UNTIL ALL PROBLEMS ARE COMPLETED. In addition, there may be group pop quizzes during class time. Quizzes are worth 15% of the course grade. A few quiz grades will be dropped at the end of the semester.

Chapter Exams: There will be three individual assessment chapter exams given during the course of the semester. There will be no make-up exams given as the final can replace the lowest score. The exams will be worth 40% of the course grade.

Final Exam: The final exam will be an individual assessment covering ALL material presented in the course. Graphing calculators are allowed and even encouraged. The final will replace your lowest chapter exam score if it is higher than the lowest chapter exam. The final exam will take place on Friday 12/9 from 8-10:30 AM and is worth 20% of the course grade.
VIII. TENTATIVE COURSE SCHEDULE

<table>
<thead>
<tr>
<th>Day</th>
<th>Topic(s)</th>
<th>Day</th>
<th>Topic(s)</th>
<th>Fall 2011</th>
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</thead>
<tbody>
<tr>
<td>8/24</td>
<td>Intro &amp; Review</td>
<td>10/14</td>
<td>3.1: Quadratic Functions</td>
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<tr>
<td>8/26</td>
<td>1.1: Linear Equations</td>
<td>10/17</td>
<td>3.4: Polynomial Functions</td>
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<tr>
<td>8/29</td>
<td>1.2: Applications of Linear Equations</td>
<td>10/19</td>
<td>3.4,5: Polynomial &amp; Rational Functions</td>
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<tr>
<td>8/31</td>
<td>1.3: Complex Numbers</td>
<td>10/21</td>
<td>3.5: Rational Functions</td>
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<tr>
<td>9/2</td>
<td>1.4: Quadratic Equations</td>
<td>10/24</td>
<td>4.1: Inverse Functions</td>
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</tr>
<tr>
<td>9/7</td>
<td>1.5: Applications of Quadratic Equations</td>
<td>10/26</td>
<td>4.2: Exponential Functions</td>
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<tr>
<td>9/9</td>
<td>1.6: Other Types of Equations</td>
<td>10/28</td>
<td>4.2,3: Exponential &amp; Log Functions</td>
<td></td>
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<tr>
<td>9/12</td>
<td>1.7: Inequalities</td>
<td>10/31</td>
<td>4.3: Logarithmic Functions</td>
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<tr>
<td>9/14</td>
<td>1.8: Absolute Values Equations &amp; Inequalities</td>
<td>11/2</td>
<td>4.4: Evaluating Logarithms</td>
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<tr>
<td>9/16</td>
<td>Chapter 1 Review</td>
<td>11/4</td>
<td>4.5: Exponential &amp; Log Equations</td>
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<tr>
<td>9/19</td>
<td>Chapter 1 Test</td>
<td>11/7</td>
<td>4.6: Growth &amp; Decay Formula</td>
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<tr>
<td>9/21</td>
<td>2.1: Rectangular Coordinates</td>
<td>11/9</td>
<td>Exponential Functions Activity</td>
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<tr>
<td>9/23</td>
<td>2.2: Circles</td>
<td>11/11</td>
<td>Chapter 3 &amp; 4 Review</td>
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<tr>
<td>9/26</td>
<td>2.3: Functions</td>
<td>11/14</td>
<td>Chapter 3 &amp; 4 Test</td>
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</tr>
<tr>
<td>9/28</td>
<td>2.4: Linear Functions</td>
<td>11/16</td>
<td>5.1: Systems of Linear Equations</td>
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<tr>
<td>9/30</td>
<td>2.5: Equations of Lines &amp; Curve Fitting</td>
<td>11/18</td>
<td>5.2: Matrix Solution of Linear Eqns</td>
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<tr>
<td>10/3</td>
<td>2.6: Basic Functions &amp; Graphs</td>
<td>11/21</td>
<td>5.3: Determinant Solns of Linear Eqns</td>
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<td>10/5</td>
<td>2.7: Graphing Techniques</td>
<td>11/28</td>
<td>5.7: Properties of Matrices</td>
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<tr>
<td>10/7</td>
<td>2.8: Function Operations &amp; Composition</td>
<td>11/30</td>
<td>5.8: Matrix Inverses</td>
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<tr>
<td>10/10</td>
<td>Chapter 2 Review</td>
<td>12/2</td>
<td>Review</td>
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<tr>
<td>10/12</td>
<td>Chapter 2 Test</td>
<td>12/4</td>
<td>Review</td>
<td></td>
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Friday, December 9 8-10:30 AM Final Exam

IX. CLASS POLICIES AND EXPECTATIONS

**Attendance:** Attendance is mandatory. Absences in the class may impact your final grade. Please save absences for emergencies. Any adjustments or corrections to the schedule or other policies will be announced in class and it is the responsibility of the student to stay informed of such changes. *It is wise to develop acquaintances you can depend upon in case of an absence.*

**Make-ups:** Since attendance is expected, there will be no make-up of online homework due to absence – excused or unexcused – no exceptions. There will be no make-ups given for missed quizzes or exams, period. If the student has a legitimate conflict, it will be possible to schedule to take an exam in **advance** of the exam date. This should be handled as soon as possible to allow the professor adequate time to prepare an alternate exam. Students absent from the final exam must either qualify for an incomplete [for the course] or receive a grade of zero for the exam; the final exam cannot be rescheduled or made-up.

**Email:** I will send information, updates, etc. through email to your islander (or campus registered) email account. It is your responsibility to check the account often for important and pertinent information. I will also reply to email as best I can. Remember I have multiple classes so a response may be slow at times.

**Website:** The course website is [www.sci.tamucc.edu/~jlyons](http://www.sci.tamucc.edu/~jlyons). There will be information about tests and quizzes, documents, etc. posted on the website. You will want to check frequently for updates. Please do not email me about course information (quizzes, tests, etc.) until you have reviewed the website.

Students will not be allowed to use cell phones or MP3 devices during class. If a student is caught using either during a quiz or exam, it will be considered as cheating and may warrant an “F” for the assignment.

Ask questions in class. Feel free to interrupt the lecture or discussion at any time for relevant questions. They are very much encouraged and will benefit everyone in the class. Come into my office during office hours for as
much help as you need. You can also schedule a time in advance with me outside office hours for extra help if needed. Please email me with any questions you might have, and I will do my best to respond quickly.

X. 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. June 17th is the last day to drop a class with an automatic grade of “W” this term.

XI. 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 rest in an F on the assignment or test.

XII. 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. The prohibition applies to all instructional forums, including classrooms, electronic classrooms, labs, discussion groups, field trips, etc.

XIII. DISABILITY SERVICES

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 reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Disability Services Office at (361) 825-5816 or go to the office at Driftwood 101.

XIV. 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 Web site 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.

XV. CHANGES

The instructor may amend the syllabus at any time prior to the final exam by announcing the changes in class.