Texas A&M University-Corpus Christi  
Department of Mathematics and Statistics  
Math 1314.012 College Algebra  
Fall 2011    (08/24 – 12/06/2011)

I. COURSE INFORMATION

Instructor: Dr. Ping “Charlene” Tintera  
Office Phone: 825-3483  
Office Address: CI-368  
Office Hours: MWF: 1~2 pm    TR 12:30pm ~ 2pm    (1 hour by appointment)  
E-Mail address: ptintera@tamucc.edu

Class meetings: Math 1314.012    TR 12:30 ~ 1:45 pm    CS-112  
Final Exam: Math 1314.012    12/13 (Tu)    Time: 11 ~1:30pm    CS-112

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 are quadratic equations and inequalities, graphs, logarithms, and exponential, solutions of polynomial equations, systems of equations, and matrices.

III. PREREQUISITES FOR THE COURSE

Math 0399, Intermediate Algebra, or placement into College Algebra.

IV. TEXT AND OTHER SUPPLIES REQUIRED

College Algebra by Lial. Hornsby, Schneider, 10th Ed. A TI-83 or TI-83 plus is required for the course. Other models may be used but will not be supported by the instructor. A student Solutions manual is available for sale in the 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 and 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 situations 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

Methods and activities for instruction include lecture by the instructor and participation by the students by doing problems in class.
VII. EVALUATION AND GRADE ASSIGNMENT

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

<table>
<thead>
<tr>
<th>Attendance/Homework</th>
<th>MANDATORY</th>
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<tbody>
<tr>
<td>Tests</td>
<td>75% (top 3 scores out of 4 tests, you may drop the test if you missed the scheduled test)</td>
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<tr>
<td>Final</td>
<td>25% (Comprehensive, calculator is allowed)</td>
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Grading Scale:

A = 90 – 100,   B = 80 – 89.99,   C = 70 – 79.99,   D = 60 – 69.99,   F = 59.9 or below.

VIII. TENTATIVE COURSE SCHEDULE

<table>
<thead>
<tr>
<th>Week</th>
<th>Chapter/Section</th>
<th>Fall 2011</th>
</tr>
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<tbody>
<tr>
<td>1</td>
<td>1.1 and 1.2</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>1.3, 1.4, and 1.5</td>
<td></td>
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<tr>
<td>3</td>
<td>1.6, Test 1</td>
<td></td>
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<tr>
<td>4</td>
<td>1.7 and 1.8</td>
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<tr>
<td>5</td>
<td>2.1, 2.2, and 2.3</td>
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<tr>
<td>6</td>
<td>2.4, 2.5, Test 2</td>
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<tr>
<td>7</td>
<td>3.1, 3.2</td>
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</tr>
<tr>
<td>8</td>
<td>3.3, 3.4</td>
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<tr>
<td>9</td>
<td>3.5, 3.6</td>
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<tr>
<td>10</td>
<td>4.1, 4.2 and 4.3</td>
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<tr>
<td>11</td>
<td>4.4, and Test 3</td>
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<tr>
<td>12</td>
<td>5.1, 5.2, and 5.3</td>
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<tr>
<td>13</td>
<td>6.1, 6.2, and 6.3</td>
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<tr>
<td>14</td>
<td>Test 4 and review for final</td>
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<tr>
<td>15</td>
<td>Final exam (DEPARTMENTAL FINAL EXAM)</td>
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IV. Class policies:

- Attendance is mandatory. Attendance will be checked each class period and each absence after 3 times (4th, 5th, and 6th) will result in one letter grade lower. Please save absences for emergencies.
- Homework will be given each class period and discussed at the beginning of next class period.
- Cell phone using and texting are prohibited in any circumstances.
- “Cheating” is strongly prohibited. If I caught someone cheating during any test, students may drop the class without my permission. If not, normally it is an “F” for the semester grade.
- You are the only person responsible to drop the class and responsible to stay inform for any changes for tests and room changes. All the changes will be announced in the class.
- You may email me for help any time but not the night before the scheduled test neither the possible chance to postpone the test.
- I respect your request by email and I will answer it in my best convenient time.
- Makeup test will be given once per student with appropriate documentation provided. Please save the opportunity for the emergencies.
- There is no makeup final exam. It will be an “F” for the semester grade regardless.
- This syllabus is a contract between students and the instructor. If you have no any question regarding to this class, this syllabus will be activated from now and through this semester.

New State Law regarding course drops

The State of Texas has enacted a statute that applies to students who enroll in public institutions of higher education as first-time freshmen in Fall 2007 or later. Under section 51.907 of the Texas Education Code, “an institution of higher education may not permit a student to drop more than six courses, including any course a transfer student has dropped at another institution of higher education.” Any course a student drops after the census date published in the class schedule or academic calendar (which for Fall 2007 is Sept 7th) is counted toward the six-course limit unless
specifically identified as being exempt. If you have any questions please send an email with phone number to admis@tamucc.edu and a representative of the Office of Admissions & Records will contact you.

**Help:**
Tutoring and Learning Center has many quality tutors to help you while you need someone beside my office hours. Welcome to visit those tutors at the Glasscock building. Please find out their schedule first before you make a plan to go for this semester. I will be happy to work with you anytime during my office hours and also email me for your special needs. Good luck to everyone in the class.

*Notice to Students with Disabilities:* 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.

**Grade Appeal 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](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.

### About the Family Educational Rights and Privacy Act (FERPA)
Under FERPA, a student has the right to:

1. **Inspect and review their education records**
   Students can inspect and review their education records within 45 days of the day the University receives a request for access. A student should submit to the registrar, dean, head of the academic department, or other appropriate official, a written request that identifies the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. **Request to amend their education records**
   Students can request to amend any of their education records that they believe are inaccurate, misleading, or otherwise in violation of the student's privacy rights under FERPA. A student who wishes to ask the University to amend a record should write the University official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed. If the University decides not to amend the record as requested, the University will notify the student in writing of the decision and the student’s right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.

3. **Some control over the disclosure of their education records**
   Students have the right to provide written consent before the University discloses personally identifiable information from their education records, except to the extent that FERPA authorizes disclosure without consent. The University discloses education records without a student’s prior consent only if it has received consent in writing, unless FERPA authorizes disclosure without consent.

4. **Appeal the decision of the University**
   Students who believe that the University has made an error in its determination of eligibility or certification to participate in a program of Federal education assistance may appeal the decision. Information on the appeals process is available from the Office of Student Services.
written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is

- A person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff)
- A person or company with whom the University has contracted as its agent to provide a service instead of using University employees or officials (such as an attorney, auditor, or collection agent)
- A person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.
- A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the University.

Upon request, the University also discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

4. **File a complaint if they feel any of these rights have been violated**

Students can file a complaint with the U.S. Department of Education concerning alleged failures by the University to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

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Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5901
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