Texas A&M University – Corpus Christi
Department of Computing and Mathematical Sciences
Math 0399.004 Intermediate Algebra
Spring 2012

INSTRUCTOR: Archana Krishnagiri
CLASS TIME: MW: 3:30P.M.-4:45P.M.
Email:-archana.krishnagiri@tamucc.edu

OFFICE: CI 311
OFFICE HOURS: T,TR 12:30 P.M. -1:45 P.M.

COURSE DESCRIPTION:

This course is designed for students needing a review of mathematics for the THEA test and Math 1314 (College Algebra). The course is designed mostly for students who have not yet had a chance to learn college preparatory mathematics. Topics include linear equations, inequalities and functions; rational expressions and equations; exponents and radicals; quadratic equations and functions; systems of equations and applications problems. This course is not for credit toward graduation.

PREREQUISITES:
Successful completion of Math 0398 or placement in this course.

TEXTBOOK:

The textbook for the class is *Deleoppmental Mathematics, 2nd Edition* by Elan Martin-Gay plus MyLabsPlus Student Access Kit. Other required materials include a four function calculator, notebook paper, folder or notebook and a pencil with an eraser. A TI83 graphing calculator will also be required.

V. Student Learning Outcomes
By the end of the semester, students will be able to show mastery for the following by passing with a score of 70% correct on tests and quizzes:

1. Interpret and simplify integral and rational exponents.
2. Use the properties of exponents to simplify algebraic expressions.
3. Use addition, subtraction, multiplication and division with order of operations to simplify monomials, binomials and polynomials.
4. Use properties to simplify radicals, including rationalizing the denominator.
5. Use properties of fractions and factoring to simplify rational expressions.
6. Solve linear equations and inequalities, which include real numbers, parenthesis, multiple-terms with the variable and have conditional, no solution or infinite solutions.
7. Use factoring techniques and the zero principle or the quadratic formula to solve quadratic equations for real or complex solutions.
8. Solve inequalities and report answers as graphs, sets or intervals.
9. Solve equations that are classified as rational, radical or absolute value.
10. Find the linear, rational, radical or quadratic equations to model or solve application problems including age problems, consecutive number problems, area problems and motion problems.
11. Represent graphically the solution(s) of equations and inequalities in one and two variables.
12. Solve systems of linear equations in two variables using elimination and substitution methods.
13. Write equations in one or two variables to solve or model application problems including mixture and motion problems.
14. Understand the relationship between the slopes of two equations and the intercepts to determine if lines are parallel, perpendicular, and identity or just intersecting.
15. Write equations for lines that are parallel or perpendicular to a given equation and passing through a specific point using point slope formula.
16. Convert from standard form to slope-intercept form and vice versa.
17. Write equations for lines in slope-intercept, point-slope and standard form given a graph, two points or a slope and point.
18. Given a graph or a quadratic equation determine the x- and y- intercepts, vertex.

**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 70% or better.

**GRADING POLICY:**
- Attendance – 10%
- Homework – 20%
- Quizzes – 20%
- Tests – 30%
- Final Exam – 20%
- Grading Scale: A = 90% or more
- B = 80% to 89.9%
- C = 70% to 79.9%
- IP = 69.9% or below
- A grade of F will only be given for those who make no effort to pass or who stop attending without dropping the course.

**CLASS POLICIES:**
  - **Attendance:**
    1. I expect each student to attend all classes. Attendance is mandatory by Texas A&M University. Please save absences for emergencies.
    2. If you are more than 15 minutes tardy you are considered absent.
    3. If you exceed 4 unexcused absences*, you will fail the class**.
    4. Cell phone must be turned off. Smart phones, laptops, or any form of a new technology device is NOT allowed in the classroom during lecture and exam.
    5. No Make-up for final test

*All absences are considered unexcused unless a written excuse or documentation is presented.
**Appeals are possible only if documentation (doctor notes, receipts etc) in written form is made available to me in a timely manner and accepted.

**IMPORTANT DATES:**
  - 1. Labor day September 3rd Holiday
  - 2. Last day to drop the class November 2nd
  - 3. Last day to withdraw from the University December 3rd
  - 4. Last day of the classes December 4th
  - 5. Final exam December 12th from 1:45 P.M. to 4:15 P.M.
Participation:
1. Participation is required in homework, study plan and written work. This includes notes taken from power points or videos and work on My Labs Plus.
2. Students found to be working on material other than mathematics during class will be given a zero for that day’s participation. This will include those using class time for personal business like emails or texting. Cell phones will be turned off and put away during class.
3. Staying on task and completing an appropriate amount of work will be noted each day by the instructor and/or tutors. A participation grade will be entered weekly for each student based on their individual work and effort. My Labs Plus records any skills completed so that you may keep a daily record of your progress.

Academic Honesty:
1. 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.
2. Students caught cheating on tests are subject to dismissal from the class and possibly the university.
3. Students caught using notes or other aids on tests will receive a zero for that test that would be part of their average for the course.

Responsibility:
1. You are responsible for obtaining required supplies and bringing them to class.
2. You are responsible for organizing your time so that you can study at least 1 hour each day outside of class and completing an appropriate amount of work during class.
3. You are responsible for any assigned homework, writings or goal setting.

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:
For complete details, see the university Web site at http://www.tamucc.edu/provost/university_rules/index.html

Tentative Schedule:
8/22 Introduction/8.1, 8.2, 8.3, 8.4
8/27 8.5, 8.6, 8.7/Chapter 8 Review
8/29 9.1, 9.4/Chapter 9 Review
9/5 Quiz #1/10.1, 10.2, 10.3
9/10 10.4, 10.5, 10.6
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