I COURSE INFORMATION

Class Meetings:

Time: MWF 9:00–9:50AM  
Location: CI, Room 112

Lecturer: Jennifer Compton Nemec

Office: Center for Instruction (CI), Room 356 (π)  
Phone: (361) 825-3629  
Email: jennifer.nemec@tamucc.edu  
Web Page: www.tamucc.mylabsplus.com  
Office Hours: TBD

II COURSE DESCRIPTION

The 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 application problems. In addition, this is a blended learning class, meaning you will be attending lecture and virtual sessions. You will not receive college level credit for this course.

III COURSE PREREQUISITES

Successful completion of Math 0398 or placement into this course.

IV TEXT AND OTHER SUPPLIES REQUIRED

- *Developmental Mathematics*, Elayn Martin-Gay, 2nd Ed.
- Scientific Calculator (NO GRAPHING CALCULATORS!!)

---

1The number provided is the Math Department’s main number. They will be able to direct you to me, however e-mail is still the best way.
V  COURSE OBJECTIVES AND GOALS

By the end of the semester, the student will be able to show mastery for the following by passing with a 70% correct on skill based tests and final exam. The student learning outcomes are:

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 property 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, quadratic equations to model or solve application problems including age problems, consecutive numbers, 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 variable 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 quadratic equations determine the x- and y-intercepts, vertex.
VI EVALUATION AND GRADE ASSIGNMENT

Grading:

<table>
<thead>
<tr>
<th></th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attendance</td>
<td>50</td>
</tr>
<tr>
<td>Homework</td>
<td>250</td>
</tr>
<tr>
<td>Four Quizzes</td>
<td>200</td>
</tr>
<tr>
<td>Two Exams</td>
<td>300</td>
</tr>
<tr>
<td>Final Exam</td>
<td>200</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1000</strong></td>
</tr>
</tbody>
</table>

A 900–1000 points
B 800–899
C 700–799
IP 0–699

For attendance, each unexcused absence reduces your score by 10 points up to a maximum of 50 points. Although this may not seem like a lot it can be the difference between an A/B or pass/fail. Homework will be administered every class period except on test days. It will be available online at www.tamucc.mylabsplus.com or in paper format for those who do not wish to use a computer.

The quizzes will be 30 minutes long and administered at the end of class. They are made to insure that you are doing your homework and are properly prepared for the exams. If a quiz is failed it can be retaken once during my office hours and the higher grade is taken.

The tests will take the full hour and you are only allowed one attempt, although extra credit incentives may be discussed during class. The final exam is on Wednesday, May 9th at 8AM. Attendance is required.

VII TENTATIVE COURSE SCHEDULE

<table>
<thead>
<tr>
<th>Week of</th>
<th>Topics Covered</th>
</tr>
</thead>
</table>
| 1/11    | Introduction and setting up MyLabsPlus.  
(8.1) Understanding what real numbers are  
(8.2) Rules of algebra (PEMDAS) |
| 1/18    | (8.3,4) Adding and subtracting real numbers  
(8.5) Dividing and multiplying real numbers  
(8.6) Properties of real numbers |
| 1/25    | MLK Holiday! No class Monday!!  
(8.7) Simplifying expressions  
(9.1,2) Addition and Multiplication Properties of Equality Quiz #1 |
| 2/1     | (9.3) More Linear Equations  
(9.4) What is Problem Solving?  
(9.5,6) Formulas, Percents, and Mixtures |
<table>
<thead>
<tr>
<th>Date</th>
<th>Topics</th>
</tr>
</thead>
</table>
| 2/8  | (9.7) Solving Linear Inequalities  
|      | (10.1) The Cartesian Coordinate System  
|      | (10.2) Graphing Linear Equations |
|      | **Quiz #2** |
| 2/15 | (10.3,4) Finding Intercepts and Slope  
|      | (10.5) Equation of a Line  
|      | (10.6) Intro to Functions |
| 2/22 | (10.7) Graphing Inequalities  
|      | (10.8) Direct and Inverse Proportions |
|      | **Test #1 (Chapters 8-10)** |
| 3/1  | (11.1) Solving Systems of Equations (Graphing)  
|      | (11.2) Solving Systems (Substitution)  
|      | (11.3) Solving Systems (Addition)  
|      | (11.4) Problem Solving w/ Systems |
| 3/8  | (12.1,2) Exponents and Scientific Notation  
|      | (12.3) Introduction to Polynomials  
|      | (12.4) Adding and Subtracting Polynomials |
|      | **Quiz #3** |
| 3/15 | **Spring Break!!!** |
| 3/22 | (13.1,2) Greatest Common Factor and Monic Quadratics  
|      | (13.3,4) Factoring Quadratics by Grouping |
| 3/29 | (13.5) Perfect Square Quadratics  
|      | (13.6) Solving Quadratics by Factoring  
|      | (14.1,2) Simplifying, Multiplying and Dividing Rationals |
|      | **Quiz #4** |
| 4/5  | (14.3,4) Adding and Subtracting Rationals  
|      | (14.5,6) Solving Equations with Rationals  
|      | (15.1,2) Introduction and Simplifying Radicals |
| 4/12 | (15.3,4) Binary Operations with Radicals  
|      | (15.5,6) Solving Equations with Radicals |
|      | **Test #2 (Chapters 11-14)** |
| 4/19 | (16.1,2) Square Root Property and Completing the Square  
|      | (16.3) The Quadratic Formula |
| 4/26 | (16.4) Graphing Quadratic Functions  
|      | (App. A) Factoring Cubic Polynomials |
|      | **Study for Final** |

Study for Final
VIII CLASS POLICIES

Attendance:

Attendance will be taken at the end of class every day. Failure to sign in will result in an absence for the day. Please note that your attendance is reported, so students with academic and/or sports requirements should be sure to sign in.

What is an excused absence?

Only extreme emergencies will count as an excused absence and must be accompanied with appropriate documents. Also extreme flooding in your area and other weather related incidents are valid. Course conflicts involving sports/field trips will be excused only if brought to my attention two weeks in advance. Work-related and non-university conflicts will not be excused. Note: Class does not stop while you are gone. You are still expected to know all material on tests, quizzes, and homework assignments.

You may drop from the course without my consent, but I strongly recommend you see me before you do. I am here to help and will give you advice on what to do. If however, you decide to stop attending class and do not drop you will receive a zero for all missed homework assignments, quizzes, and tests. Generally people who do this fail the course... it is not advised.

If you miss the date of the final exam you will receive a ZERO. There are no make-ups for the final exam. PLAN AHEAD!!!

Class Rules:

Turn off all cell phones or put them in vibrate mode. If you have to answer a call or if nature calls then quietly exit the room. I will not attack you, I promise. Also no laptops or media players will be allowed. It is distracting to me and others.

Questions are encouraged and I will attempt to answer as many as I can, however keep in mind that there is much to cover this semester. If questions take too long I may ask you to meet me after class or during office hours where I will be happy to help you out.

During a quiz or test no phones/media players/graphing calculators should be visible or on the desk at all. If you have to answer a call or use the restroom then submit your papers before you leave the room. You can’t get them back until they are graded. GO TO THE RESTROOM BEFORE THE TEST!!!
As for cheating, it will not be tolerated at all. The first offense will result in a grade of zero for everyone involved and a second offense will result in a failing grade for the class and be cited on your permanent record. This is a college campus and you are adults, this should not be an issue.

Help:

I am able to assist during my office hours, however remember that my office hours are for helping you with difficult material and homework, not for filling you in on what you missed in class!

In addition, there is FREE\textsuperscript{2} math tutoring available in the Glasscock building which is located between the library and the S&T. They are very good at what they do and operate on a first come first serve basis. So stop on by, sign in, wait patiently and they will help you out. Incentives will be added throughout the semester to get you to go...

IX NOTICES

**Academic Honesty:** University students are expected to conduct themselves in accordance with the highest includes all forms of cheating, such as illicit possession of examinations or examination materials, forgery or plagiarism.

**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 \url{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.

\textsuperscript{2}Technically you paid for this in your tuition...