I. COURSE INFORMATION
Instructor: Sheri Asbury MS
Office: CI357
Office Phone: (361) 825-6559
Email: sheri.asbury@tamucc.edu
Office Hours: TBA
Time & Location: TR 9:30-10:45 AM BH202

II. COURSE DESCRIPTION
This course is designed for students who wish to understand and master the basic mathematical concepts that will help them succeed in Calculus I. In this class, almost every topic will be studied geometrically, numerically, and algebraically then communicated back to the instructor in a literate fashion (the rule of four). Less emphasis will be put on manual algebraic manipulation and more on concepts and cooperative learning. Topics include: data analysis, functions, graphs, limits, trigonometry, exponential & logarithmic functions, other functions, and math modeling.

III. COURSE PREREQUISITES
MATH 1314: College Algebra OR placement into MATH 2312.

IV. COURSE MATERIALS
Required:
A graphing calculator – recommended TI 84 or higher version.


V. STUDENT LEARNING OUTCOMES
At the end of the course the student should be able to:
1) Manipulate basic expressions:
   multiply and factor polynomials
   work with rational expressions
   simplify rational exponents
   rationalize fractions

2) Solve standard equations and inequalities:
solve linear equations
solve quadratic equations
determine and graph the solution set of an inequality
solve absolute value equations
solve exponential and logarithmic equations
solve trigonometric equations
solve systems of linear equations
3) Determine features of graphs of functions and circles, create graphs, and transform graphs
graph circles whose equation needs to be simplified first
determine whether a given graph is the graph of a function
graph linear functions
recognize the graphs of some basic functions
use graphing techniques, such as shifts and stretches to determine from a polynomial how its graph will look
find axis-intersects for polynomials
be able to graph trigonometric functions and their translations

4) Determine if given functions have inverses, find inverse functions, and know properties of standard invertible functions
determine from the graph of a function whether it has an inverse
check whether two functions are inverses of each other
find the equation of the inverse of a function
use continuous compounding and exponential functions
use logarithms as inverse functions of exponential functions
simplify logarithmic expressions
graph and find values for the inverse circular functions

5) Know and apply the trigonometry of triangles and trigonometric functions and identities
convert between degrees and radians
know the values of the basic trig functions for special angles
solve right triangles
use the circular functions to find coordinates of points on the unit circle
have the fundamental trigonometric identities memorized
be able to verify trigonometric identities
simplify trig expressions using the double angle identities

VI. INSTRUCTIONAL METHODS AND ACTIVITIES
The course will be a combination of instructional presentation of new material and concepts, whole-class discussion, individual investigations of mathematics, and optional one-on-one discussion time between students and the instructor outside of class. Students may be required to give individual or group presentations. All students are expected to actively engage in group and whole class activities with respect and perseverance.

VII. EVALUATION AND GRADE ASSIGNMENT
The methods of evaluation and the criteria for grade assignments are:
Homework/Classwork 20%
Quizzes 15%
Class Project 10%
Chapter Exams 30%
Final Exam 25%
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

Homework/Classwork: Individual assignments are made online through WeBWorK. Students will solve and submit completed homework assignments online. Homework will be assigned periodically and have a due date. It is the student’s responsibility to understand when an assignment is due. This information is easily found once logged onto 3
WeBWorK. Some assignments will have a “late” due date. Any work done late will incur a penalty. Time extensions for homework will not be given for any other circumstances, happenings, or individual student situations, period. It is the discretion of the professor to assign extra homework at any time. There will also be group activities and problem solving done in class and submitted for a homework grade. A few homework assignments will be dropped at the end of the semester. Homework is worth 20% of the course grade.

**Quizzes:** Group quizzes will be administered in class. A quiz will be dropped at the end of the semester. Quizzes are worth 15% of the course grade.

**Project:** There will be a project associated with this course. The project will be completed in small groups. The project will be 10% of the course grade.

**Chapter Exams:** There will be two individual assessment chapter exams given during the course of the semester. There will be no make-up exams given as the lowest score can be dropped or replaced by mentoring attendance. The exams will be worth 30% of the course grade.

**Final Exam:** The final exam will be an individual assessment covering ALL material presented in the course. The final exam is worth 25% of the course grade.

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.**

**VIII. TENTATIVE COURSE SCHEDULE**

A tentative course schedule will be handed out separately.

**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-up 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 (and a life) so a response may be slow at times!

**Cell Phones:**

Students will not be allowed to use cell phones during class unless directed to do so by the instructor. If a student is caught using a cell phone during a quiz or exam, it will be considered as cheating and may warrant at the minimum an “F” for the assignment.

**Questions:**

They are very much encouraged and will benefit everyone in the class. Come into my office during office hours help as needed. However, if you miss a class, I will not reteach a lesson for you. 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. March 30th 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 result in a grade of F.

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