MATH103: College Mathematics (3 Credits)

Faculty Contact Information:

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Course Materials:

1. MATH 103 eBook (Free)
2. Any Scientific calculator with two line algebraic display:
   Recommended: Texas Instrument TI-36X Pro Reference **Manual** @ AAFES = $18.99

Grading Information and Criteria:

There will be three hour tests each worth 100 points, which will be given at the beginning the first class of Week 3, 5, and 7. The Final Exam is worth a maximum of 200 points and will be given the last class of Week 8.

Assessment Items:

Hour Test 1 = 100 points (Beginning of first class Week 3)
Hour Test 2 = 100 points (Beginning of first class Week 5)
Hour Test 3 = 100 points (Beginning of first class Week 7)
Comprehensive Final Exam = 200 points

Course Grade

Your course grade will calculated in two different ways and the higher percentile will be used to determine your course grade based on 400 points. If the final exam is higher than your lowest hour test grade, it will replace your lowest hour test grade and the final exam will be worth 200 points or 50% of your grade. If the final exam is your lowest grade, then I will use all three hour test scores and the final exam will be counted as 100 points or 25% of your grade.
The course grade will be determined using the percentages for total points for the course:

A = 100 to 90%
B = 89.9% to 80%
C = 79.9% to 70%
D = 69.9% to 60%
F < 60%

Homework:

Students are required to keep a homework notebook that will be examined at the time of the final exam. The homework must be done on separate and identifiable pages from the class notes and be in sequence. Students are expected to attempt all assigned problems, show all work as step-by-step procedures, and check their resulting answers with the solution. Ask questions about problems that could not be successfully completed during the help sessions or post your solution on the board prior to the start of class for review at the beginning of class. will disable your learning processing.

Strategies for Success in MATH103:

1. **Please read all sections before they are covered in class** and try working through the example problems after reading through the material in each assigned section.
2. **Attend all Lecture Sections** to learn the material and watch carefully the step-by-step problem solving procedures. Your tuition buys you admission to the scheduled show and there are no second showings. To understand what goes on in class you must be there. Missing class and then expecting to find out what went on from someone else does not work in Math. Mathematics is NOT a spectator sport. It takes effort, desire, determination, discipline, and time management.
3. **Allocate 20 hours per week to MATH103 class**.
4. **Stay on Schedule** to keep pace with the course, lectures, and homework.
5. **Participate in Class Discussions** is encouraged and it is important to ask questions.
6. **Do Homework assignments incrementally after covered in class.** Course Schedule

This is a tentative schedule for the course covering an 8 week session.

Week	Sections	Assigned Chapters, Quizzes. and Exams
1	1.1-1.3 1.4-1.5	*Topics:* number theory, prime numbers, order of operations, rational and irrational numbers, exponents, scientific notation, and scientific calculator operations,
2	2.1-2.4 3.1-3.5	*Topics:* applied problems, ratios, proportions, solve linear equations, algebraic expressions.
3	4.1-4.3 5.1-5.2	**Test 1 @ Beginning of first class** *Topics:* polynomials, linear inequalities, solving quadratic equations, rectangular coordinate system and graphs.
4	5.3-5.4 5.5-5.6	*Topics:* graphing linear and quadratic equations, recognizing types of functions and their graphs, definition of functions, applied probability in modeling using functions.
5	6.1-6.2 6.3-6.4	**Test 2 @ Beginning of first class** *Topics:* simple interest, annuities, compound interest, mortgages, installment loans, percent.
6	7.1-7.2 7.3-7.4	*Topics:* approaches to probabilities, probability rules and applied problems, counting rules, combination, and permutations.
7	8.1-8.3 8.4-8.5	**Test 3 @ Beginning of first class** *Topics:* frequency distributions and graphs, measures of central tendency, measures of dispersion, normal distribution, z-scores, scatter plots, and correlation.
8	Review and Final Exam	**Final Examination @ beginning of second class**