Mathematics in the Modern World - Mathematics 101
Winter 2009

Instructor: Nancy Budner
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Prerequisites: A minimum score on: The math section of the SAT of 500 **OR**
                                     The math section of the ACT of 19 **OR**
                                     The COMPASS test of 50   **OR**
                                     Successful Completion of Math 100B

Text: <u>Using and Understanding Mathematics: A Quantitative Reasoning Approach</u>,
                Fourth Edition, Bennett & Briggs, Pearson, Addison/Wesley Publishers, 2008.

This is a project oriented course. This means that after the instructor introduces the material, the students will work on projects using the material in groups of 1 to 4 students. These projects will constitute a large percentage of the student grade along with assignments out of the text, periodic quizzes, exams after each project and a standardized final exam.

Grading:

A	94 or above	**A-**	90 – 93		
B+	87 – 89	**B**	83 – 86	**B-**	80 – 82
C+	77 – 79	**C**	73 – 76	**C-**	70 – 72
D	60 – 69	**F**	Below 60		

1. Incompletes will **NOT** be given!
2. If you have any requests to allow for special needs, let the instructor know within the first three days of class.
3. **In and out of class assignments will total 100 points.**
4. **Projects will be worth 100 points each;**
5. **There will be four exams plus a final exam for 100 points each.**

Expectations:
- students will use a variety of graphs appropriately to represent information presented in their work;
- students will write solutions to problems involving basic arithmetic and algebraic manipulations including estimation;
- students will be able to interpret; manipulate and use formulas to solve real world problems;
- students will develop, recognize and communicate solutions in the real world context;

Additional Information:
This course is <u>project oriented</u>. You will work in and out of class on projects in each topic.

This syllabus sets out the expectations for the coursework which will determine your grade. It is most important that you read and understand it. You are encouraged to ask questions. Keep this document for reference. If you have special needs or requirements to facilitate your progress, or outside activities which will interfere with class, you need to make arrangement with the instructor **as soon as possible.**

Math 101 satisfies part of the basic skills requirement needed for graduation. It presents material which has applications in daily life. Math is all around us, and it is essential that we gain an understanding of it. Otherwise we become victims of those who do! This class design is to describe what Mathematics is, how it is organized, and how it works.

Remember Mathematics is like a foreign language. The only way to gain the skills required for success is through practice. It requires a **LOT** of time. If you can not spend the time to practice this language, you will have problems successfully completing this course. Homework and projects are strictly YOUR responsibility. You are here because you choose to be. Lack of effort will result in a waste of YOUR time and money!

Statistics show that the **biggest cause of failure** is not doing the work and/or **not going to class**. We move FAST and the primary resource is class so you must BE THERE! It will be your responsibility to catch up if you aren't in class. Attendance is not required, but quizzes will be given at random for the benefit of those who regularly show up. We add material to that found in the textbook so you need to come to class to receive this added information.

Another important requirement for this class is mutual respect. The instructor will respect your presence in this class. You in return must respect others presence in the class and respect the learning process taking place in the classroom. Rude behavior will not be tolerated. Your attention and effort is mandatory to make this class a success.

It is strongly suggested that you have obtained a TI 83 or TI 84 for this course. **A calculator with memory, exponential, log, and trig functions is REQUIRED!** The textbook is important. Problems and reading will be assigned from the textbook. Group studying is encouraged and group projects will be assigned.