

Math with Business Applications– 10-804-123

Instructor: **Qun Yu**, Room A132 (General Studies) Phone: 262-564-2444. Email: yuq@gtc.edu

Required Text: Business Mathematics , 12th edition by Miller, Salzman and Clendenen.

Required: A stapler, and a scientific calculator: TI-30 or above.

Welcome to Math with Business Applications!

This course integrates algebraic concepts, proportions, percents, simple interest, compound interest, annuities, and basic statistics with business/consumer scenarios. It also applies math concepts to the purchasing/buying and selling processes. Apply operations involving fractions, decimals and percent to business applications.

Prerequisite: 834-109 prealgebra.

Total credits: 3.00

Total hours: 54.00

Course competencies:

1. Solve scenarios using basic math computations
2. Solve scenarios using algebraic concepts
3. Solve percentage scenarios
4. Solve simple interest scenarios
5. Solve compound interest scenarios
6. Solve annuity scenarios
7. Apply math concepts to the purchasing/buying process
8. Apply math concepts to the selling process
9. Interpret basic statistics

LECTURE ATTENDANCE: My experience tells me that students who attend class regularly tend to learn the material more effectively, more efficiently and have better learning outcome. You are required to sign your name on the attendance sheet, your signature is the only evidence that you attend a class. **You are required to attend the class for the entire class time, if you are absent from second half of the class period, it will be considered absent for the whole class.** 10% of your final grade is from attendance, but if a student is absent for more than 30%, his/her course grade will be lowered by one letter grade. **Withdrawal is not allowed after 80% of time has passed.**

HOMEWORK: Homework will be collected **chapter by chapter** and it is due the following Thursday if I finish the chapter in the previous week. You will get **at most 80%** of the credit for the homework that is overdue. I urge you to hand in homework even if it is late. You must show your work for each problem, your work is the proof of your understanding of the materials taught in the class. Multiple pages of work must be stapled together. I will not grade all the problems, but will choose problems to grade; you won't know which until they are graded. Homework is your 'rehearsal' for the **tests** which are based on the problems found in the homework. It's also your chance to challenge yourself and to find out **before** the tests what it is you need more help on. I'm always willing to go over homework problems with you, but there is not always time to go over every problem during lecture. Come and see me during office hours for tutoring. Your homework will count towards your final grade (see next session).

TESTS: 4 tests will be given during the course. Each test will cover either 3 or 4 chapters. These tests are worth 70% of your final grade for the course, homework has a weight of 20%, the remaining 10% comes from your attendance. All tests will be returned to you as promptly as possible, and you should study carefully your mistakes to learn from them. If you miss a test, you will have a chance to make up **ONE**, but you need to talk to me within one week after the missed test.

ACADEMIC HONESTY: Although very few students would cheat themselves out of the knowledge they will need for their chosen profession, it has happened. Gateway Technical College strongly condemns all forms of academic dishonesty including, but not limited to: copying homework from others, copying lab reports without understanding them, or copying during exams. Any incidents of academic dishonesty will have the minimum consequences of a failing grade on the assignment or the exam, or a failing grade for the course.

GRADING: Your grade will be determined by weighed average on 4 tests (70%), homework (20%) and attendance (10%). Here is a typical grading scale.

90 to 100 = A

80 to 89 = B

70 to 79 = C

60 to 69 = D

Less than 60 = F

This is only a general guideline, I may make small adjustment. Your actual course grade depends on you and your fellow students; the best strategy is to try for a letter grade higher than you think you can get.

A NOTE TO THOSE TAKING THE COURSE AGAIN: Welcome back and let's try it again! You need to start this semester by identifying what you will change and do differently this time. For some, it's spending more time on the homework, getting advice and corrections before the exams. For others, it will be improving lecture attendance. Many of you need to spend more time on the course in general. Whatever it is for you, you are the one that has to figure out what to do differently this time. It is very important to have a plan now to avoid the mistakes of last semester. Remember too that you're not a rookie anymore; you may have an easier time understanding whatever you found challenging before. See me if you want specific advice, you are always welcome to see me.

Gateway Technical College's CORE ABILITY STATEMENT:

Gateway believes students need both technical knowledge and skills, and core abilities in order to succeed in a career and in life. The following nine core abilities are the general attitudes and skills promoted and assessed in all Gateway programs.

1. Act responsibly
2. Communicate clearly and effectively
3. Demonstrate essential computer skills
4. Demonstrate essential math skills
5. Develop job-seeking skills
6. Respect yourself and others as members of a diverse society
7. Think critically and creatively
8. Work cooperatively
9. Value learning

Gateway Technical College's SPECIAL NEEDS STATEMENT:

If you have any special educational needs or concerns, please contact your classroom instructor or the Special Needs Instructors:
(564-2500)