Math 1324- Mathematics for Business Applications I  

**INSTRUCTOR:** Dr. Crawford  
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**OFFICE HOURS:** MWF, 10am-10:50am; others by appointment

**TEXT:** *Applied Mathematics for the Managerial, Life and Social Sciences, 6th Edition* by Tan.

**REQUIRED MATERIALS:** Pencil. TI 83 or 84 calculator.

**COURSE DESCRIPTION:** We will cover chapters 2, 3, 4, 5 and parts of chapters 6 and 8. Topics include functions (linear, quadratic, polynomial, rational, exponential and logarithmic), mathematics of finance (simple and compound interest, future and present value of an annuity, etc.), probability and statistics, linear programming, and systems of linear equations and matrices.

**STUDENT LEARNING OUTCOMES:** Upon successful completion of this course a student will:

- Demonstrate knowledge and understand various compound interest formulas.
- Utilize statistical methods to interpret and predict data.
- Use matrices and other methods to solve systems of equations.
- Understand different types of functions and their graphs, including to but not limited to linear, quadratic, exponential and logarithmic.
- Demonstrate using logarithms to solve problems.

**COMPETENCY EXAM:** One competency exam will be given during class-time and will cover: factoring, solving, and multiplying polynomial equations, quadratic formula, solving and simplifying radical and rational functions, domain and range of functions, slope-intercept and point-slope equations for linear functions. **Calculators are not allowed.** This test must be passed with an 80% or better for the grade to be recorded. Scoring below 80% will result in a zero being recorded. You may retake the exam in the testing center (SS 308) as often as 3 times a week with an appointment, but you must receive a score of 80% or better before, or a zero will be recorded in the grade book. The deadline for completion is September 28th by 3:00PM. Note: These skills are necessary to be successful in this course.

**TESTS:** We will have three 100 point tests plus a comprehensive final. A **TENTATIVE** test schedule is below, but that is subject to change. In general, **NO makeup tests will be given,** although you may replace your lowest exam grade with the final exam grade.

Test 1: Week of 9/17  
Test 2: Week of 10/22  
Test 3: Week of 11/12

**HOMEWORK:** You are expected to complete all homework assignments and turn them in the next class day unless otherwise instructed. Quizzes will be given in class over the material presented in the homework. **NO makeup quizzes will be given.**

**PROJECTS:** You will have two application projects, in which you will demonstrate the skills and concepts learned in class in a practical way. Accuracy and creativity in these projects will be expected.

**GRADES:**

- Tests: 50%
- Competency Exam: 10%
- Homework/Projects/Quizzes/Tutoring Attendance: 15%
- Final: 25%

**ATTENDANCE and CONTINUAL ENROLLMENT POLICY:** Class attendance is expected and a **MUST** to pass this course. Attend punctually and regularly. Note that Math 1324 is a University Studies math requirement, and as such the university requires each student to remain continually enrolled in a math course until he/she has successfully completed the college-level math requirement. Because of this policy, you are **NOT allowed to drop this course.**
TUTORING AND GETTING HELP: At least 1 hour of tutoring per week is REQUIRED. Tutoring can include attending SI sessions, TRIO tutoring, and tutoring in the math skills center (Binnion 328). There will be an SI tutor for this course. This upper level student attends class with you and holds free weekly study sessions specifically designed for this course. I will announce in class when and where these sessions will be. Additionally, the Math Skills Center in Binnion 328 offers free tutoring Monday and Wednesday from 8am – 8pm, Tuesday and Thursday from 8am – 6pm, and Friday from 8am – 3pm.

The Mach III/TRIO Program is available for students who qualify for additional assistance. For more information, contact Ronnie Brooks at 903-886-5833 or in Halladay Student Services building, Room 301.

“The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. If you have a disability requiring an accommodation, please contact: Office of Student Disability Resources and Services, Room 132, Gee Library, or call 886-5835, email StudentDisabilityServices@tamuc.edu”

STUDENT CONDUCT: Appropriate classroom behavior is required to attend this class. All cell phones must be put on silent and out of sight during class. Disruptive behavior will not be tolerated.

GRADE REPORTING FOR FRESHMEN: Grades for students in freshmen level classes will be reported to the Registrar's Office at the end of the fifth week of class. The Registrar's Office will report grades to students, Advising Services, Academic Departments (faculty advisors) and mentors. This procedure allows students to be aware of their academic progress early in the semester. The University will take steps to assist students who may be experiencing difficulty to focus on improvement and course completion.

ACADEMIC INTEGRITY: As stated in the Student Handbook, academic dishonesty in the class will not be tolerated I have a NO TOLERANCE policy for cheating and if you are caught cheating you will fail this course. Cheating in this course is defined as the following:

- Giving or receiving answers during an exam or quiz.
- Viewing the exam or quiz answers of nearby classmates.
- Having notes/practice work available during quizzes or tests.
- Possession or access to test items before the test is given.
- Deception in getting an excused absence to obtain the undeserved opportunity to make-up work.
- Use of cell phones or text messaging technology during exams or quizzes. **You may not use the calculator on your cell phones.**
- Improper citations in written works, or using another person’s ideas and words as your own without giving proper credit.

Any method, no matter how well rationalized or accepted, which improves a person’s grade by any means other than study and skillful performances on exams and/or other assignments.

*By remaining enrolled in this course, you are agreeing to abide by these policies*