

## Math 1324 – Mathematics for Business Applications I (Summer I- 2016)

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<b>Office Hours</b>	<b>Monday – Thursday, 8:00 – 9:00</b>

**“All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment.”**

**(Student’s Guide Handbook, Policies and Procedures, Conduct.)**

**Rude and/or disruptive behavior will not be tolerated.**

**No electronic devices (except calculators) are allowed during class time.**

**TEXT:** Applied Mathematics for the Managerial, Life and Social Sciences 6<sup>th</sup> Edition by Tan, ISBN # **978-1133108948**, the text is **REQUIRED**.

**REQUIRED MATERIALS:** Binder or folder, textbook and TI 83 or 84 calculator (see below).

**TECHNOLOGY REQUIREMENTS:** We will use a graphing calculator daily in this course. The graphing calculator TI 83/TI 84 or equivalent is highly recommended. Calculators other than Texas Instruments calculators may be used but classroom instruction on calculators will be given for TI equipment only. **\*\*Note:** Calculators that solve problems for students, including but not limited to TI-Nspire, TI 89 or higher, Casio Prizm, Casio Touch or higher are **NOT** allowed to be used for this class. **\*\* Students are also required to clear the memory of graphing calculators before and after each exam.**

**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:

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

- 5) Demonstrate using logarithms to solve problems.
- 6) Demonstrate using inequalities and systems of inequalities to solve business application problems.

### **CORE OBJECTIVES:**

- 1) *Students will be able to analyze, evaluate, or solve problems when given a set of circumstances or data.*

This common core objective will be assessed in the exams and final exam for all sections of Math 1324.

- 2) *In written, oral, and/or visual communication, A&M-Commerce students will communicate in a manner appropriate to audience and occasion, with an evident message and organizational structure.*

This common core objective will be assessed using common class activities/projects with class discussion over functions, finance, systems of equations and linear inequalities and how these topics relate to business for all sections of Math 1324.

- 3) *Students will be able understand and utilize mathematical functions and empirical principles and processes.* This common core objective will be assessed using common class activities/projects with discussion over functions, common homework problems, exams and the final exam for all sections of Math 1324.

**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.**

Test 1: Week of 6/16

Test 2: Week of 6/23

Test 3: Week of 6/30

**FINAL EXAM:** The comprehensive final will be given on Thursday, July 7th 11:00am-1:00pm.

**GLOBAL COURSE:** This course has been selected as a Global Course – tied to the Quality Enhancement Plan (QEP). Texas A&M University-Commerce QEP seeks to prepare students for an interconnected world. In relation to the QEP, students completing this course will be able to demonstrate knowledge of the interconnectedness of global dynamics (issues, trends, processes, and systems), apply knowledge of the interconnectedness of global dynamics, and view themselves as engaged citizens within an interconnected and diverse world. This course will provide activities, experiences, and opportunities to reach all of the QEP learning outcomes. One of the class projects in this course will be utilized to assess the QEP student learning outcomes for each student. **Students are responsible to upload a copy of the project to their ePortfolio in ManeSync.**

**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. All quizzes and homework assignments should be done in **pencil**.

**PROJECTS:** You will have 1-2 application projects due, in which you will be asked to demonstrate the skills and concepts learned in class in a practical way. You will be given advance notice as to the due date of these projects. Accuracy and creativity in these projects will be expected.

**GRADES:** Tests: 60%

Homework/Quizzes/Projects: 15%

Final: 25%

**Grade: A = 90-100, B = 80-89, C = 70-79, D = 60-69, F = 59 or below**

**ATTENDANCE and CONTINUAL ENROLLMENT POLICY:** Class attendance is expected and a **MUST** to pass this course, and it is your responsibility to attend punctually and regularly. Roll will be taken every class period and excessive absences will result in being dropped from this course.

In addition, 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 2 hours of tutoring per week is **STRONGLY SUGGESTED**. Tutoring can include attending SI sessions, TRIO tutoring, and tutoring in the math skills center (Binnion 328).

If you need additional help outside my office hours, the Math Skills Center in Binnion 328 offers free tutoring Monday-Thursday from 8am – 3pm.

The Mach III/TRIO Program is available for students who qualify for additional resources, such as private tutoring. In order to qualify, students must meet certain conditions,

such as being a first-generation college student. For more information, contact Ronnie Brooks at 903-886-5833 or in the 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. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their 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 during class. Phones are a distraction for me and the other students in the class. All people will be treated with respect and I will not allow talking that will disrupt my lectures. If disruptions occur during class lectures, you will be asked to leave class and will earn a zero on any applicable grades for that class period. Serial disrupters will be asked to withdraw from my class.

#### **ACADEMIC INTEGRITY:**

**As stated in the Student Handbook, academic dishonesty in the class will not be tolerated.** Included with other forms of academic dishonesty, if any materials or equipment are found to be available to the student at any time which is considered inappropriate by the instructor, the very fact that the materials are inappropriately available to the student is grounds for an accusation of academic dishonesty. The instructor reserves the right to fail the student for the assignment or the course, as well as report the student to the Academic Dean and the Dean of Students. The above deans have the ability to terminate a student’s enrollment in the University. *The instructor considers this an extremely serious matter.* Please make sure you are not in a situation that could be viewed negatively. **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.**

### **1324 Tentative Schedule (Summer I 2016) For Students**

#### **Week 1 (June 6-9)**

**Syllabus, Review of previously learned concepts, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6 & 2.7**

#### **Week 2 (June 13-16)**

**5.1, 5.2, 5.3, Exam 1, 3.1 & 3.2**

#### **Week 3 (June 20-23)**

**3.2, 3.3, 4.1, 4.2, 4.3 & 4.4**

#### **Week 4 (June 27- June 30)**

**Exam 2, 6.1, 6.3, 7.6, 8.2, 8.3 & 8.5**

#### **Week 5 (July 5-7)**

**8.6, Normal Distribution, Exam 3 & Final Exam**