



**Math 1324.001– Mathematics for Business Applications I (Spring 2018)**

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**“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.**

**Material Required:** Students must purchase a copy of **MyMathLab/MyLab & Mastering student access code** from either of the campus bookstores or directly from Pearson at <http://www.coursecompass.com>. Please get a **Binder** to keep and organize all notes and course materials. A Texas Instruments (TI-83 or TI-83 Plus) **graphing calculator** for this course is highly recommended. All exams must be completed in **pencil**.

**Textbook (Optional):** College Mathematics for Business, Economics, Life Sciences, and Social Sciences 13<sup>th</sup> Edition by Barnett, Ziegler, Byleen, ISBN # **978-0-321-94551-8**. \*\*\* **The MyMathLab access code includes access to an e-book, so the book is optional but the MyMathLab access code is required.** Portions of Chapters 1-5 and 8 in the textbook will be discussed.

**Please use the MyMathLab 14 day free trial to start working on homework if students cannot purchase it right away. The MyMathLab student access code must be purchased by the end of 2nd week of class to prevent a loss in points.**

**Calculator Loan Program:** The Mathematics Department has set up a calculator loan program to support students. Students can borrow a calculator for a semester with a fee (\$10 to \$15 for TI-83/84). It is first come, first served basis.

**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, data, texts, or art.*** 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 to interpret, test and demonstrate principles revealed in empirical data and/or observable facts.*** This common core objective will be assessed using class activities, homework problems, exams and final exam for all sections of Math 1324.

**INSTRUCTIONAL METHODS:** Instruction will include lecture, demonstration and models, and some group work, based on time available.

**COMPETENCY EXAM:** A competency exam will be given during class-time and will cover the prerequisite materials for business math. Calculators will be allowed for competency exams. 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 take a retake of the exam in the testing center (SS 308) as often as 3 times a week, but you must receive a score of 80% or better, or a zero will be recorded in the grade book. The competency exam represents 10% of the final grade for this course. Students who do not pass the competency exam will receive a grade of zero for that 10% of the final grade. The deadline for completion of retakes is **February 23rd, 2018 by 5:00 PM**. 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 2/19

Test 2: Week of 3/23

Test 3: Week of 4/27

**FINAL EXAM:** The comprehensive final will be given on **Monday, May 7<sup>th</sup> 10:30AM-12:30PM.**

**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:** Homework will be completed online through MyMathLab and immediate feedback will be given. Remember, you can try problems you miss online again until you get them right and fully understand the topic. **It is my expectation that you should have a 100 on each homework assignment because of this.** Online due dates should be observed, and in general, late submissions will not be accepted. Quizzes will occasionally be given in class over the material presented in the homework. In general, NO makeup quizzes will be given. All work should be done in pencil.

**PROJECTS:** You will have 2-3 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: 50%

Competency Exam: 10%

Homework/Quizzes/Tutoring Attendance/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 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 may 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. If you need additional help outside my office hours or outside the times of the SI sessions, 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 – 12pm.

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.

**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.

**GRADE REPORTING FOR FIRST YEAR STUDENTS:** Grades for students in freshmen level classes will be reported to the Registrar's Office at the end of the fifth week of class during the fall and spring semesters. The Registrar's Office will report grades to students, Advising Services, Academic Departments (faculty advisors) and mentors. This procedure will allow students to be knowledgeable about their academic progress early in the semester. The university, through Advising Services, faculty advisors and mentors, will take steps to assist students who may be experiencing difficulty to focus on improvement and course completion. Early intervention for freshman students is designed to communicate to students the University's interest in their success and willingness to participate fully to help students accomplish their objectives.

**Academic Integrity:** In order to insure fairness and high academic standards, any actions which violate the principles of academic integrity through dishonesty or cheating are given serious consideration.

In order to understand what constitutes a violation of academic integrity and the consequences of such behavior, the university's policies may be reviewed at: <http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>. In particular, awareness of the following definitions is essential in order to know what represents academic dishonesty (pages 6 – 7):

**“Cheating:** Intentionally using or attempting to use unauthorized materials, information, notes, study aids or other devices or materials in any academic exercise. Unauthorized materials may include anything or anyone that gives a student assistance, and has not been specifically approved in advance by the instructor.”

**“Complicity:** Intentionally or knowingly helping, or attempting to help, another to commit an act of academic dishonesty.”

**“Plagiarism:** The appropriation of another person's ideas, processes, results, or words without giving appropriate credit.”

While majority of students are honest in doing their school work. However, due to recent cheating events, action must be taken to protect the academic integrity of classrooms. **There is a NO TOLERANCE policy for cheating and if a student is caught cheating, he/she will either get a zero for the test or 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. **Students may NOT use the calculator on their cell phones or any other similar electronic devices (such as I-Pods, I-Touch, etc.). IF ONE OF THESE DEVICES IS AVAILABLE, IN ANY WAY, DURING AN EXAM OR QUIZ, THE STUDENT WILL BE GIVEN AN AUTOMATIC "0" ON THE ASSIGNMENT.**
- Improper citations in written works, or using another person's ideas and words as students 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.

Students found guilty of an act of academic dishonesty in this course will be subject to receiving an "F" in this course.

**ADA Statement, Students with Disabilities:** 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:

Student Disability Resources & Services

Texas A&M University-Commerce

Gee Library- Room 162

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

[StudentDisabilityServices@tamuc.edu](mailto:StudentDisabilityServices@tamuc.edu).

**Nondiscrimination Notice:** This statement presents the University's commitment to a safe, accepting environment for all students regardless of sexual orientation, gender identification, or gender expression: A&M-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from

discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

**Texas Senate Bill - 11** (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations. For a list of locations, please refer to (<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>) and/or consult your event organizer). Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

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

### **1324 Tentative Schedule (Spring 2018) For Students**

**Week 1 (Jan. 17-19) Syllabus, Review, 1.2**

**Week 2 (Jan. 22-26) 2.1, 2.2 & 2.3**

**Week 3 (Jan. 29- Feb. 2) In-Class Competency Exam & 2.4**

**Week 4 (Feb. 5-9) 4.1 & 4.2**

**Week 5 (Feb. 12-16) 4.3 & Exam 1 Review**

**Week 6 (Feb. 19-23) Exam 1 & 2.5      **\*\*Deadline for the Comp. Exam is Feb. 23\*\*****

**Week 7 (Feb. 26- Mar. 2) 2.6 & 3.1**

**Week 8 (Mar. 5-9) 3.2 & 3.4**

**\*\*SPRING BREAK: MAR. 12-16\*\***

**Week 9 (Mar. 19-23) 3.4, Exam 2 Review & Exam 2**

**Week 10 (Mar. 26-30) 8.1, 8.2 & 8.3**

**Week 11 (Apr. 2-6) 8.4 & Mean, Median, Mode & 8.5**

**Week 12 (Apr. 9-13) Standard Deviation, Normal Distribution & 5.1**

**Week 13 (Apr. 16-20) 5.2 & 5.3**

**Week 14 (Apr. 23-27) Wrap Up, Exam 3 Review & Exam 3**

**Week 15 (Apr. 30- May 4) Review for Final Exam**

**Week 16 (May 7-11) Finals Week      **\*\*FINAL EXAM on Monday, May 7<sup>th</sup> 10:30AM-12:30PM****