

MTH 143, Finite Mathematics

Department of Mathematics and Statistics

Semester

Professor: Dr. Arbitrary Sample
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Office Hours:

Class Times & Place: 11-11:50 MWF, Room 024, Math Building

Monday	Tuesday	Wednesday	Thursday	Friday
9-10, 1:30-3	None	9-10, 1:30-3	9-11, 2-3	9-10

Course description: Mathematical functions and graphs, linear systems of equations, matrices, linear programming, mathematics of finance; applications.

Core Objectives (CO):

- Critical Thinking** [CO 1]: to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
- Communication Skills** [CO 2]: to include effective development, interpretation and expression of ideas through written, oral and visual communication
- Empirical and Quantitative Skills** [CO 3]: to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

CURRENT Text and Materials: The required textbook is Mathematical Applications for Mgmt. Life and Social Science, 10th ed. By Harshbarger and Reynolds ISBN: 1133106234. Topics covered this semester are included in chapters 1 through 6 of the textbook. For exams, students may use only a non-programmable, non-graphing calculator.

SAMPLE Exam Calendar: Please note that the dates for our in-class exams below are **subject to change**. The final is university scheduled and cannot be taken at a different time without permission of the Dean of the College of Sciences and Mathematics.

Exam 1 [CO 1, 2, 3] Thursday, February 7
 Exam 2 [CO 1, 2, 3] Thursday, March 7
 Exam 3 [CO 1, 2, 3] Thursday, April 11
 Final [CO 1, 2, 3] Monday, May 6, 10:30 a.m.—12:30 p.m. in our regular classroom

SAMPLE Course Requirements/Assignments:

- Three in-class exams**—If a student must miss an exam due to an excused absence, special arrangements should be made in advance. Student ID with photo may be required for exams. **No cell phone or graphing calculators will be allowed on exams.** You will need to bring your own scientific calculator to exams. The first three exams consist of problems similar to those practiced in class and homework for which students must think critically [CO 1] to make a plan for solving the problem and incorporate empirical or quantitative reasoning [CO 3] as appropriate to communicate a logically [CO 2] ordered solution with complete and correct notation.
- Homework**—We will assign exercises from the text from each major topic in the course calendar/outline but will not take up homework for a grade. Students must think critically [CO 1] to make a plan for solving the homework problems and incorporate empirical or quantitative reasoning [CO 3] as appropriate to communicate [CO 2] a logically ordered solution with complete and correct notation.
- Weekly in-class quizzes**—We will have weekly in-class quizzes on Fridays of non-exam weeks. Weekly quizzes consist of problems similar to those practiced in class and homework for which students must think critically [CO 1] to make a plan for solving the problem, and incorporate empirical or quantitative reasoning [CO 3] as appropriate to communicate a logically [CO 2] ordered solution with complete and correct notation.
- A comprehensive final exam**—The final exam is Monday, May 6, 10:30 a.m.-12:30 p.m. The comprehensive final exam consists of problems similar to those practiced in class and homework for which students must think critically [CO 1] to make a plan for solving the problem, and incorporate empirical or quantitative reasoning [CO 3] as appropriate to communicate [CO 2] a logically ordered solution with complete and correct notation.
- Class attendance and participation**—Students are expected to attend all class meetings, arriving on time. If you are absent, you are responsible for determining what you missed and for being prepared for class when you return. Leaving class early without notifying the professor in advance will result in your being counted absent for the class session. Students that sleep in class, send or receive text messages, or conduct other online activities not directly related to class will be counted absent.
- Preparing for class**—Students should be prepared to invest several hours per day outside of class reading the text, practicing examples, and working homework exercises. *Material to be discussed in class should be read before coming to class.* Check your university email regularly, as I may send reminders, assignments, or announcements.

the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average. The circumstances precipitating the request must have occurred after the last day in which a student could withdraw from a course. Students requesting a WH must be passing the course with a minimum projected grade of C.

Students with Disabilities

To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to <http://www.sfasu.edu/disabilityservices>.

Acceptable Student Behavior

Classroom behavior should not interfere with the instructor's ability to conduct the class or the ability of other students to learn from the instructional program (see the Student Conduct Code, policy D-34.1 http://www.sfasu.edu/policies/student_conduct_code.asp). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the Early Alert Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed.

Student Learning Outcomes (SLO): At the end of MTH 143, a student who has studied and learned the material should be able to:

1. Use linear functions and quadratic functions in business applications. [CO: 1,2,3]
2. Use matrices to solve systems of linear equations. [CO: 1,3]
3. Use matrices to solve linear programming problems. [CO: 1,3]
4. Use exponential functions and logarithmic functions and to solve equations using these functions. [CO: 1,2,3]
5. Solve simple interest and compound interest problems including annuities. [CO: 2,3]

There are no specific program learning outcomes for this major addressed in this course. It is a general education core curriculum course and/or a service course.