

MATH 1630
COLLEGE MATHEMATICS for MANAGERIAL, SOCIAL, and LIFE SCIENCES
3 Credit Hours

Instructor:

Office:

Phone:

Email:

Office Hours:

Prerequisites:

Two years of high school algebra and a Math Enhanced ACT of at least 25 or passing grade in MATH 1710.

Text:

Finite Mathematics, 10th edition; Lial, Greenwell, & Ritchey

Technology:

TI-83 or TI-84+ required.

Course Information:

MATH 1630 -College Mathematics for Managerial, Social, and Life Sciences

Purpose:	The purpose of the course is to apply mathematics to problems that arise in Managerial, Social, and Life Sciences. Topics include solving systems of linear equations, Leontief models, linear programming, mathematics of finance, set theory, and probability theory.
Learning Objectives:	Upon completion of this course, students will <ol style="list-style-type: none"> 1. Have enhanced ability to reason mathematically and enhanced problem solving skills. 2. Be able to apply algebraic and matrix methods to the solution of practical problems, including understanding reasonableness of answers and problem assumptions. 3. Have enhanced ability to use the graphing calculator to better understand linear systems and linear inequalities. 4. Have a better understanding of the mathematical tools to deal with compound interest and annuities. 5. Have developed familiarity with vocabulary and concepts of present value, future value, and amortization. 6. Be able to solve systems of linear equations by a variety of methods, including the simplex method. 7. Be able to apply counting principles in the computation of simple and compound probabilities.
Topical Outline:	This course consists of selected topics from Chapters 1, 2, 3, 4, 5, 6, and 7 in the required text, including linear functions; solutions to linear systems; linear programming and the simplex method; counting principles; and probability. Sections to be covered include: Chapter 1 – Linear Functions: Sections 1 – 2 Chapter 2 – Systems of Linear Equations and Matrices: Sections 1 – 5 Chapter 3 – Linear Programming: The Graphical Method Sections 1– 3 Chapter 4 – Linear Programming: The Simplex Method: Sections 1 - 2 Chapter 5 – Mathematics of Finance: Sections 1– 3 Chapter 7 – Sets and Probability: Sections 1 - 5 Chapter 8 – Counting Principles; Further Probability Topics: Sections 1 - 3

Evaluation:

Grading Scale:

100-90% ---A
 89-80% ---B
 79-70% ---C
 69-60% ---D
 Below 60% ---F

Drop/Withdrawal Policy (Note to instructor: underlined dates will need updating for each semester)

Please note the Drop Policy and Withdrawal Procedures as they are stated in the Registration Guide. The last day to drop this course without a grade is September 10. The last day to drop this course with a "W" is October 15. A grade of "I" will be given only in accordance with University Policy.

No grade of "W" will be assigned after the official drop date except in situations involving extreme extenuating circumstances beyond the student's control. In particular, a "W" will not be granted merely because the student is failing. Students should be aware that missing the official drop date and thereby receiving an "F" can have ramifications on financial aid.

Lottery Scholarships

To retain Tennessee Education Lottery Scholarship eligibility, you must earn a cumulative TELS GPA of 2.75 after 24 and 48 attempted hours and a **cumulative** TELS GPA of 3.0 thereafter. You may qualify with a 2.75 **cumulative** GPA after 72 attempted hours (and subsequent semesters), if you are enrolled full-time and maintain a **semester** GPA of at least 3.0. A grade of C, D, F, or I in this class may negatively impact TELS eligibility. Dropping a class after 14 days may also impact eligibility; if you withdraw from this class and it results in an enrollment status of less than full time, you may lose eligibility for your lottery scholarship. Lottery recipients are eligible to receive the scholarship for a maximum of five years from the date of initial enrollment, or until a bachelor degree is earned. For additional Lottery rules, please refer to your Lottery Statement of Understanding form, review lottery requirements on the web at <http://scholarships.web.mtsu.edu/telsconteligibility.htm>, or contact the Financial Aid Office at 898-2830.

Disability Assistance

If you have a disability that may require assistance or accommodation, or you have questions related to any accommodations for testing, note takers, readers, etc., speak with me as soon as possible. Students must also contact the Office of Disabled Students Services (898-2783) with questions about scheduling such services.