



*Mathematics*

## College Mathematics for Managerial, Social, and Life Sciences Math 1630

### INSTRUCTOR INFORMATION

Instructor:

Office Location:

Office Hours:

Email/Phone:

### COURSE INFORMATION

#### Description

Three credits College Algebra. Three credits. This course satisfies the True Blue Core Quantitative Literacy requirement and meets specific requirements for programs as outlined in the MTSU Undergraduate Catalog.

Quantitative Literacy (Quant Lit) (3 hours)

- For all catalogs 2024-2025 and beyond, this course meets the True Blue Core (TBC) curriculum requirement for Quantitative Literacy (Quant Lit). To learn more about TBC requirements: <https://w1.mtsu.edu/truebluecore/core.php>.
- For all catalogs prior to 2024-2025, this course meets the general education curriculum requirements for Mathematics (3 hours). To learn more about general education requirements for catalogs prior to 2024-2025: [https://w1.mtsu.edu/gen\\_ed/requirements.php](https://w1.mtsu.edu/gen_ed/requirements.php).
- **The TBC outcome for Quantitative Literacy:** Students demonstrate the ability to interpret, represent, calculate, apply, and analyze numerical data in a variety of settings, and will make assumptions and communicate those assumptions based on quantitative information.

#### Objectives

Upon completion of this course with a passing grade, the student will:

- Use mathematics to solve problems and determine if the solutions are reasonable.
- Use mathematics to model real world behaviors and apply mathematical concepts to the solution of real-life problems.
- Make meaningful connections between mathematics and other disciplines.

- Use technology for mathematical reasoning and problem solving.
- Apply mathematical and/or basic statistical reasoning to analyze data and graphs.
- Have enhanced ability to reason mathematically and enhanced problem solving skills.
- Be able to apply algebraic and matrix methods to the solution of practical problems, including understanding reasonableness of answers and problem assumptions.
- Have enhanced ability to use the graphing calculator to better understand linear systems and linear inequalities.
- Have a better understanding of the mathematical tools to deal with compound interest and annuities.
- Have developed familiarity with vocabulary and concepts of present value, future value, and amortization.
- Be able to solve systems of linear equations by a variety of methods.
- Be able to solve linear programming problems both graphically and using the simplex method.
- Be able to apply counting principles in the computation of simple and compound probabilities.

### **Topics Covered**

- Functions and Applications
- Finance
- Systems of Linear Equations and Matrices
- Matrix Algebra
- Linear Programming
- Sets and Counting
- Probability Topics

### **Prerequisites and Co-requisites**

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

### **COURSE MATERIALS**

#### **Required Textbooks**

*Finite Mathematics*, 12<sup>th</sup> edition, by Lial, Greenwell, and Ritchey. You must purchase a MyMathLab access code. Your MML code will allow you access to the eText and the online homework. You may purchase the code at the campus bookstore, other area bookstores, or the MML website. Please wait for confirmation from your instructor to purchase the book or MML. <https://www.bkstr.com/middletennesseestore/home/en>

#### **Supplementary Materials**

A TI-83/84 calculator is required for this course.

### **ASSESSMENT AND GRADING**

## Grading Scale

Assignment	Points/Percentage
In Class Tests	45%-50%
Online Homework	25%-30%
Comprehensive Final Exam	25%
Other	0%-5%
Total	100%

## Final Exam

The final examination is a Mathematics Department, multiple-choice, comprehensive examination given to all students enrolled in Math 1630. Students are required to have completed the final examination as per the scheduled date/time for their respective section: see Academic Calendar on MTSU Pipeline. The final examination is closed book and closed notes (except for 8.5" x 11" sheet allowed for notes). Examination pamphlets and scratch paper are provided by the exam proctor. Unexcused absences for the final examination result in a course grade of F.

Note: Students are responsible for and required to bring the following materials to the final examination: (1) a large scantron, Form No. 4521, (2) a TI 83 or 84 Plus graphing calculator, (3) a #2 pencil, and (4) an 8.5" x 11" sheet of paper containing student preferred information.

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

## Incomplete Grades

Incomplete grades are given rarely and only in extenuating circumstances. The [MTSU Undergraduate Catalog](#) states: "The grade I indicates that the student has not completed all course requirements because of illness or other uncontrollable circumstances, especially those which occur toward the end of the term. Mere failure to make up work or turn in required work on time does not provide the basis for the grade of "I" unless extenuating circumstances noted above are present for reasons acceptable to the instructor." Please refer to the Undergraduate catalog for the complete Incomplete Grade Policy.

## **Class Participation**

Student participation is required in all aspects of the course. Please adhere to the following:

- Attend class lectures
- Participate in class activities
- Read and study assignments
- Solve assigned problem sets
- Complete test, quizzes, homework, etc.
- Complete a comprehensive final exam

If you do not take the final exam, you cannot pass the course.

## **Attendance Reporting**

MTSU Administration requires that instructors complete an attendance report for each course each semester. Regular class attendance is required and will be monitored by: the D2L system report; participation in the discussion board; and timely submission of course assignments. If several class assignment submissions are missing, student attendance will be reported as “no longer attending.”

## **Email**

Per the [Family Educational Rights and Privacy Act \(FERPA\)](#) all course communication will be conducted using D2L email. Faculty will not respond to student emails via a non-institutional assigned email

MTSU faculty are concerned about the well-being and development of our students and are legally obligated to share reports of sexual assault, dating violence, domestic violence and stalking with the University’s Title IX coordinator to help ensure student’s safety and welfare. Please refer to [MTSU’s Title IX website](#) or contact information and details.

## **Instructors Discretion**

The instructor may opt out of using My Math Lab for the assigned homework in this course. If your section of the class does not use MML for the assigned homework, you will receive a syllabus with updated grading scale and homework policy the first day of class. Most classes will use MML and you will not know until the first day of class if your section is not using MML.

## **Drop/Withdrawal Policy and Dates**

Please note the Drop Policy and Withdrawal Procedures as they are stated in the Current Registration Guide. A grade of "I" will be given only in accordance with the 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.

## **General conduct in class**

The instructor has primary responsibility for control over all classroom behavior and can direct the temporary removal or exclusion from the classroom of any student engaged in disruptive conduct or conduct which otherwise violates the general rules and regulations of MTSU.

## **Judicial Statement / Academic Misconduct**

Please review the [information on Academic Integrity and Misconduct](#). Academic integrity is a hallmark of Middle Tennessee State University. We expect students to present original work for all academic assignments turned in for credit and appropriately credit all sources used.

Academic misconduct includes, but is not limited to:

1. Plagiarism: The adoption or reproduction of ideas, words, statements, images, or works of another person as one's own without proper attribution. This includes self-plagiarism, which occurs when an author submits material or research from a previous academic exercise to satisfy the requirements of another exercise and uses it without proper citation of its reuse.
2. Cheating: Using or attempting to use unauthorized materials, information, or study aids in any academic exercise. This includes unapproved collaboration, which occurs when a student works with others on an academic exercise without the express permission of the professor. It also includes purchasing assignments or paying another person to complete a course for you.
3. Fabrication: Unauthorized falsification or invention of any information or citation in an academic exercise.

Going online and using information without proper citation, copying parts of other students' work, creating information to establish credibility, or using someone else's thoughts or ideas without appropriate acknowledgment is academic misconduct. If you have a question about an assignment, please ask me to clarify. All cases of academic misconduct will be reported to the Director of Student Academic Ethics and may result in failure on the test/assignment or for the course.

## **Grade Appeals**

[University Policy 313, Student Grade Appeals](#), provides an avenue for MTSU students to appeal a final course grade in cases in which the student alleges that unethical or unprofessional actions by the instructor and/or grading inequities improperly impacted the final grade.

## **Free Tutoring**

Take advantage of our FREE tutoring service and learn how to study, get help with understanding difficult course material, receive better test grades, or simply improve your grade point average. Tutoring is available in *study skills* and *learning strategies* that includes sessions on time management, notetaking, when and where to study, and memory principles. Tutoring is also available in over 200 courses including biology, history, computer information Systems, physics, math, psychology, chemistry, economics, recording industry, and many more. The central location for tutoring is the Tutoring Spot, located in Walker Library, but is also conducted at various other campus sites.

For available tutoring opportunities, visit

<http://mtsu.edu/studentsuccess/tutoring.php#on>. For questions, call the Tutoring Spot at 615-904-8014.

## **Hope (Lottery) Scholarship Information**

Do you have a lottery scholarship? To retain the 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. A grade of C, D, F, FA, or I in this class may negatively impact TELS eligibility.

If you drop this class, withdraw, or stop attending this class, you may lose eligibility for your lottery scholarship, and you may not be able to regain eligibility.

For additional Lottery rules, please refer to your [Lottery Statement of Understanding form](#) or contact your [MT One Stop Enrollment Counselor](#).

## **Make-Up Policy**

Make-ups will not be given for anything other than in-class exams, and only with the instructor's prior consent (emergencies accepted). A University approved excuse must be provided in order to be given a make-up exam and, depending on circumstances, the instructor has the right to not give a make-up exam.

## **Mental Health**

As a college student, you may experience a range of challenges and issues that can interfere with your physical and mental well-being, hinder your academic experience, and negatively impact your daily life. Some of these experiences may include overwhelming depression/sadness, anxiety, high levels of stress, use of alcohol/drugs, difficulty sleeping, difficulty concentrating, and/or loss of motivation. These challenges and issues can lead to thoughts of self-harm and suicide. If you or any of your classmates are experiencing these issues, it is important to reach out and ask for help. Discuss your situation with a friend, a family member, your instructor, or an academic advisor. Remember: Everyone struggles. It's okay to talk about it. Ask for help. YOU ARE NOT ALONE!

## **Outreach and Support Programs**

The MTSU community is committed to the academic achievement of each student, and we know that struggling to address basic needs can affect a student's ability to perform academically. If you are having trouble finding a safe and stable place to live or enough food to eat, please contact Danielle Rochelle (615-898-2808 or [Danielle.Rochelle@mtsu.edu](mailto:Danielle.Rochelle@mtsu.edu)), come by the MTSU Food Pantry at the MT One Stop, or speak with your instructor to get the assistance and resources you need.

## **Reasonable Accommodations for Students with Disabilities**

Middle Tennessee State University is committed to campus access in accordance with Title II of the Americans with Disabilities Act and Section 504 of the Vocational Rehabilitation Act of 1973. Any student interested in reasonable accommodations can consult the [Disability & Access Center \(DAC\)](#) website and/or contact the DAC for assistance at 615-898-2783 or [dacemail@mtsu.edu](mailto:dacemail@mtsu.edu).

## **Student Resources**

## Frequently Used Student Resources

### Technical Support

Students who experience technical problems including, but not limited to, logging into their course, timing out of their course, using the course web site tools, should be encouraged to contact the [MTSU Help Desk](#) online (24/7) or at 1-615-898-5345.

### Title IX

Students who believe they have been harassed, discriminated against or been the victim of sexual assault, dating violence, domestic violence or stalking should contact a Title IX/Deputy Coordinator at 615-898- 2185 or 615-898-2750 for assistance or review [MTSU's Title IX website](#) for resources. MTSU faculty are concerned about the well-being and development of our students and are legally obligated to share reports of sexual assault, dating violence, domestic violence and stalking with the University's Title IX coordinator to help ensure student's safety and welfare. Please refer to [MTSU's Title IX website](#) for contact information and details.

### The True Blue Pledge

#### [I am True Blue](#)

As a member of this diverse community, I am a valuable contributor to its progress and success. I am engaged in the life of this community. I am a recipient and a giver. I am a listener and a speaker. I am honest in word and deed. I am committed to reason, not violence. I am a learner now and forever. I am a BLUE RAIDER. True Blue!

#### Find us on Social Media:

