

MA103 College Algebra

Fall 2020

1:06-1:56 Monday-Friday Lecture Tuesday-Friday

Course Syllabus

Central Methodist University

Instructor: Mrs. Leverton

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Zoom number: 713 979 4298

(You are responsible for communication via email.)

Mission: Central Methodist University prepares students to make a difference in the world by emphasizing academic and professional excellence, ethical leadership, and social responsibility.

Prerequisite: ACT Math Sub-score ≥ 22

REQUIRED Text: *College Algebra* (7th ed), Robert Blitzer, Pearson Prentice, ISBN-13: 978-0134469164.

Course description: College Algebra is a 3-credit hour course on the study of equations and inequalities, functions and graphs, and systems of equations and inequalities.

Course objectives: Upon successful completion of this course, students will be able to understand and solve problems involving:

- Radicals, integers and rational exponents (review)
- Linear and quadratic equations, inequalities, and absolute values
- Relations, functions, and graphs
- Polynomial and rational functions
- Sequences and series
- Matrices and determinants, if time

Common Core Competencies: This course meets the following competency in the CMU General Education Core Value: Foundations: Math Literacy; students will demonstrate mathematical reasoning by applying appropriate methods and procedures. 6&7

Academic Conduct Policy: Any student caught committing academic misconduct will earn a zero for that assignment, quiz or exam. Furthermore that student will come under the auspices of the Academic Conduct Policy of CMU. It is the student's responsibility to review and understand the CMU Academic Conduct Policy:

<https://clas-catalog.centralmethodist.edu/info/Grading.%20Academic%20Recognitions%20and%20Sanctions.html#conduct>

Grievance Policy: Central Methodist University has established a grievance policy and process designed to provide students and others with a process to resolve potential issues. This policy and process is established to provide persons with an avenue to file a written concern and to establish a process to track and implement changes as a result of said concern. For more detailed information consult the CLAS catalog at:

<https://clas-catalog.centralmethodist.edu/info/University%20Policies.html#grievance>

Attendance: Regular attendance is necessary for this class. Late arrival or early departure from class may be counted as an absence. In the event of an absence, you are responsible for all of the material covered in class that day and any schedule changes or class announcements.

Course Outline:

Prerequisite chapter 3 weeks

- Radicals, integer and rational exponents (review)

Chapter 1 3 weeks

- Linear and Quadratic equations and inequalities

Chapter 2 3 weeks

- Functions and their Graphs

Chapter 3 2 weeks

- Polynomial and rational functions and graphs

Chapter 4 2 weeks

- Exponential and Logarithmic functions and graphs

Chapter 5 3 weeks

- Systems of equations

Chapter 6 3 weeks

- Matrices

Chapter 8 (as time allows)

- Sequence and series

Final Exam

Grading Policies: There will be a test following each chapter (approximately 4-5 for the semester). Quizzes will be given periodically throughout the semester as well (usually 1 per chapter). Homework will be assigned on a weekly basis.

Tests/Quizzes 70%

Homework 30%

How the class works: Homework is due at class time on Friday, and the new set of work is assigned for the next week. Class lecture time will be spent on specific topics and skills covered in that week's work. It will be driven largely by questions you have and issues that arise as you attempt the work. Therefore, you will want to start the week's work as soon as possible, do what you can, recalling what you've learned in the past and/or reading through the text and following examples, and then bring specific questions to class so that we can go over them together.

Penalty for late work: NO LATE WORK IS ACCEPTED.

Class policy for making up work: Because assignments are given up front, as one week ends and another begins, there should be no need for make-up work. Start the work early, on Friday. Do what you can over the weekend. Be prepared to spend the following week asking questions, making corrections, and completing everything. The earlier you get it turned in, the more time I have to look at it and give you feedback that may include opportunities to raise your scores.

Note: Central Methodist University does not discriminate on the basis of race, color, religion, sex, national origin, age, or federally defined disability/state defined handicap ("disability"). This includes but is not limited to recruitment and admission of students, educational programs, services, activities, financial aid, and scholarship programs. The University complies with all federal and state non-discrimination requirements.

This syllabus is subject to change, without notice, at the discretion of the instructor.

Please email me as soon as possible so that I have your email address. I will use email to update you on changes in the schedule and/or the assignments, and it is useful for you to ask questions and get help outside of class. I am available to meet via Zoom; you can request a meeting through email.