

MA103 College Algebra (Dual Credit)  
Fall 2020

**Instructor:** Dr. David Fontenot

**Time:** M -T – W – Th - F at 8:00 AM - 9:02 AM

**Required Text:** *College Algebra, 7<sup>th</sup> Edition* by Robert Blitzer

**Zoom Meeting Link:** <https://centralmethodist.zoom.us/j/3374999070>

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

**Course Description:** College Algebra is a study of equations and inequalities, functions and graphs, polynomial and rational functions, exponential and logarithmic functions, and systems of equations and inequalities.

**Education Core Value:** Foundations: Math Literacy; students will demonstrate mathematical reasoning by applying appropriate methods and procedures.

**Prerequisite:** ACT Math sub-score  $\geq 22$

**Required Text:** College Algebra, 7<sup>th</sup> Edition, Robert Blitzer, Pearson Education, Inc, 2018, ISBN 9780134469164

**Materials:** Students may use any calculator that is not a phone/computer/tablet or similar device. Note that exams will be structured so that advanced calculators will not confer an advantage.

### Student Learning Outcomes

1. Understand the basic elements of the Cartesian coordinate system and graphs of equations;
2. Understand the concept of a function and the properties of graphs of functions;
3. Apply the properties of linear, quadratic, polynomial, rational, exponential and logarithmic functions and be able to graph these functions.
4. Be able to solve systems of equations and inequalities and to apply these methods to practical applications.
5. Be able to use and interpret matrices and determinants to solve systems of equations.
6. Understand logarithms and exponents and the properties associated with them.

### Assessment of Student Learning Outcomes

1. Presence and participation in class lecture and activities
2. Homework will be given on a weekly basis to assess conceptual understanding and practical application of course materials.
3. Chapter worksheets will be assigned for completion outside of class. Worksheets will allow you to work with partners, but all submitted work must be written up individually.
4. Two in-class exams and one final exam will assess your understanding of course materials.
5. Quizzes and other in-class activities may be given as needed.

## Grading Policy

This course requires a minimum of one hour of out-of-class work for every one hour of class work. You can expect to work between 6 and 8 hours for this course outside of class each week if you do not fall behind.

Final grades will be calculated as follows.

Attendance & Participation	10%	A = 90-100%
Homework	50%	B = 80-89.99%
Exams	20% (10% each)	C = 70-79.99%
Final Exam	20%	D = 60-69.99%
		F = Under 60%

**Academic Conduct Policy:** Any student caught committing academic misconduct will earn a zero for that assignment, quiz or exam. Any academic misconduct will be handled according to the Academic Conduct Policy of CMU. It is the student's responsibility to review and understand the CMU Academic Conduct Policy. A single grievous offense or repeated offenses may result in an automatic course failure.

**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:

<http://www.centralmethodist.edu/academics/catalog/clas-catalog/policies/index.php>.

If an issue cannot be solved through consultation with the faculty or division chair, students can report an incident/issue within 30 days of the event via the online web form (<https://cm.maxient.com/reportingform.php?CentralMethodistUniv>).

**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 the material covered in class that day and any schedule changes or class announcements.

**Making Up Work:** Please let me know as soon as possible if you are going to miss class. Your assignments for the week are still due and need to be submitted on time unless given a specific exception by the professor. If you miss a quiz or test, it needs to be completed when you return and submitted that day.

**Equity in Education:** 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 nondiscrimination requirements.

This syllabus is subject to change at the discretion of the instructor with due notice. No change in grading policy will be made.

### **TENTATIVE SCHEDULE**

<u>Week</u>	<u>Content</u>	<u>Activity</u>
Week #1	Chapter 1	Introductions
Week #2	Chapter 1	
Week #3	Chapter 1	Worksheet Ch 1 Assigned
Week #4	Chapter 2	
Week #5	Chapter 2	Ch 2 Worksheet Assigned
Week #6	Chapter 3	Exam #1: Ch 1 & 2
Week #7	Chapter 3	Ch 3 Worksheet Assigned
Week #8	Chapter 4	
Week #9	Chapter 4	Ch 4 Worksheet Assigned
Week #10	Chapter 5	
Week #11	Chapter 5	Ch 5 Worksheet Assigned
Week #12	Chapter 6 (partial)	Exam #2 Ch. 3, 4, & 5
Week #13	Chapter 6 (partial)	
Week #14	Flex Time	
Week #15	Flex Time	
Week #16	Review Week	Final Exam