

CENTRAL METHODIST UNIVERSITY
MA 103
COLLEGE ALGEBRA – DUAL CREDIT
Fall 2017

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MISSION

CENTRAL METHODIST UNIVERSITY prepares students to make a difference in the world by emphasizing academic and professional excellence, ethical leadership, and social responsibility.

Course Objectives: Students will be able to simplify and solve linear, polynomial, and exponential equations as well as model applications from a problem solving perspective.

Common Core Competencies: Math Literacy: 6-7. Students will demonstrate mathematical reasoning by applying appropriate methods and procedures.

Assessment Measures: Homework assignments, quizzes, and exams

Measureable Learning Outcomes: · Simplify and solve linear equations and inequalities · Graph linear equations and functions · Solve systems of linear equations · Apply properties of exponents to simplify polynomial functions · Factor polynomials · Simplify rational expressions · Solve radical equations and simplify radicals · Solve quadratic equations using a variety of strategies · Graph quadratic and higher degree polynomial functions · Solve exponential equations using logarithms · Create and solve models for problems in all areas above

Topical Outline: · Graphs · Functions · Linear functions and equations · Linear inequalities · Quadratic functions and equations · Factoring · Complex numbers · Quadratic Inequalities · Higher degree polynomials · Rational functions and equations · Radical equations · Inverse functions · Exponential functions and equations · Logarithmic functions · Systems of linear equations

Culminating Experience: Comprehensive final exam on all major topics.

Class attendance is mandatory and will be taken daily.

Grades will be determined by dividing the total of earned points by the possible points and then multiplying by 100 to find the percent. The following is the grading scale:

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

Generally, one section will be covered in each class period. Quizzes will usually cover two or three sections depending on the material. It is very important for students to keep up and to ask for help when having difficulties in understanding a concept or problem.

If an exam or quiz is missed it is the responsibility of the student to make arrangements to take a make-up exam or quiz. Missed exams or quizzes must be made up in a timely fashion.

TEXTBOOK

College Algebra 4th edition by Blitzer

ACADEMIC PROPERTY

All work (original or copy) submitted by the student to satisfy the requirements of the course may be retained at the discretion of the instructor for non-profit and educational purposes. Such work is generally used for assessing the course and providing evidence of student accomplishment for review by accrediting agencies. Any student wishing to prohibit such use of their work may do so by notifying the instructor in writing.

ADA Compliance Policy: CMU is committed to ensuring nondiscrimination and equal access to all programs, service, and activities for qualified students with a disability. Contact the Center for Learning and Teaching to request reasonable accommodations or to obtain further information.

Students are expected to follow Central Methodist University's code of academic conduct and honesty as outlined in the current CMU catalog and on the CMU website. Any student caught committing academic misconduct may have any or all of the following consequences:

1. Grade of zero on the individual assignment
2. Grade of F in the class
3. Dismissal from the class
4. Dismissal from the education program
5. A notation of academic misconduct on your transcript.