Math 104   College Algebra
Spring 2020

Section   9   12:40 – 1:40   M W F   Room: Swart 325

Instructor: Dr. Steve Winters   **Phone:** 424 – 7344   **Office:** Swart 202
E-mail: winters@uwosh.edu

Office Hours: 9:10 – 10:10   MTW F
                        1:50 – 2:50   M   W   (by appointment)
                        and other times by appointment.

    Talk to me after class, email or call to set up an appointment.

Text: *College Algebra & Trigonometry*, 1st Ed. by Miller/Gerken (McGraw-Hill) –
    ALEKS 360. This book is also online and is included with the ALEKS 360.
    Additional information is given in Canvas.

Required Calculator: The TI-83, TI-83+ or the TI-84+ is required.

Prerequisites: Math 103 with a grade of C or above or placement.

Topics: We will cover chapters 1, 2, 3 and 4.

Homework: We will use the ALEKS 360 for homework in this course. The
    homework is worth 100 points. Additional information is given in Canvas.
    For ALEKS support, call (714) 619-7090 or online www.aleks.com .

Exams: There will be four exams given at the testing service. Exam dates will be
    listed in Canvas.

Group Work: We will be solving problems by working in small groups each class
    period. Some of this work will be turned in for grading and some will be
    presented in class by your group. Class participation is expected.

Grades: Your course grade will be based on 425 total points:

Homework	100
Exams	300
Group Work & Class Participation	25

391 – 425	A	378 – 390	A-	366 – 377	B+
353 – 365	B	340 – 352	B-	327 – 339	C+
289 – 326	C	276 – 288	D+	264 – 275	D
251 – 263	D-	0 – 250	F		

General Education: Explore Mathematics (XM) Math 104 is an Explore course within the Nature category of UW Oshkosh's University Studies Program. As part of a liberal education, explore courses support a broader understanding of the physical and natural world and develop transferable skills, like problem-solving, which may be utilized in daily and professional life. Math 104 emphasizes the following intellectual and practical skills:

1. Identification and objective evaluation of theories and assumptions
2. Critical and creative thinking
3. Written and oral communication
4. Quantitative literacy

Tutoring Resources: Tutoring is available free-of-charge through the Center for Academic Resources (CAR).

Learning Objective: This course provides a review of elementary algebra. It presents Equations and Inequalities, Functions and Relations, Polynomials and Rational Functions, and Exponential and Logarithmic Functions

The goal of this course is to give students appreciation of mathematics and algebraic tools they need in order to be successful in other mathematics and science courses. It focuses on problem solving, critical thinking and learning basic concepts in Algebra. Upon successful completion of the course, students are expected, but are not limited, to have the ability to do the following.

- Be able to communicate graphically, numerically, and algebraically in the notation and vocabulary of college algebra.
- Display a basic understanding of the general concepts of functions, relations, equations, and inequalities.
- Be competent in working with linear and quadratic functions in theory and application.
- Be able to show a basic understanding of inverse functions by displaying a proficiency in working with their properties.
- Be able to identify the properties of polynomials of different degrees and rational functions.
- Have an understanding of how the roots of a polynomial determine its factorization.
- Display a working knowledge of the definitions and manipulations of exponential and logarithmic functions and equations.
- Be able to model and predict situations using algebra.