

College Algebra

Math 1220, Section 553

UNM-Valencia

Instructor of Record: Greg Barnett
High School Instructor: Bonnie Dodge

Office
LRC 107
(505) 925-8620
gregbarnett@unm.edu

Office Hours: T,Th
12:00-1:00 online
1:00-3:00 in the LRC
or by appointment

1 Overview

Welcome to Math 1220. Here is the UNM course description.

Preparation for 1240 and 1430. The study of equations, functions and graphs, especially linear and quadratic functions. Introduction to polynomial, rational, exponential and logarithmic functions. Applications involving simple geometric objects. Emphasizes algebraic problem solving skills. (I)

Meets New Mexico Lower-Division General Education Common Core Curriculum Area II: Mathematics.

Prerequisite: (118 and 119) or 1215 or (1215X and 1215Y and 1215Z) or ACT Math ≥ 22 or SAT Math Section ≥ 540 or ACCUPLACER Next-Generation Advanced Algebra and Functions $\geq 239-248$.

Note: This syllabus is subject to change, if needed.

2 Course Learning Objectives

- Students will build on their knowledge of polynomial, rational, absolute value, radical, exponential and logarithm functions in the following contexts:
 1. Use function notation; perform function arithmetic, including composition; find inverse functions.
 2. Identify functions and their transformations given in algebraic, graphical, numerical, and verbal representations, and explain the connections between these representations.
 3. Graph and interpret key feature of functions, e.g., intercepts, leading term, end behavior, asymptotes.

4. Solve equations algebraically to answer questions about graphs, and use graphs to estimate solutions to equations.
5. Solve contextual problems by identifying the appropriate type of function given the context and creating a formula based on the information given.
6. Communicate mathematical information using proper notation and verbal explanations.

3 Textbook

The text for this course is:

- College Algebra, Concepts Through Functions, Fourth Edition, by Sullivan and Sullivan

Each week you will receive slides containing the most important information from relevant sections of the textbook. If you would like more information on a particular topic, then look up the topic in the index of your high school textbook.

4 Other Requirements

Students should have internet access and a functioning UNM netID, so that they can view slides and check their grades on UNM Blackboard Learn (<https://learn.unm.edu>).

5 Course Structure

The course content includes the following.

- Written Homework Assignments (200 points)
 - Homework assignments are due on Tuesdays, as indicated on the schedule.
 - **Homework deadlines are fixed.**
 - There are 12 homework assignments, worth 20 points each.
 - * The lowest two homework scores will be dropped.
 - Students will submit all work for 5 circled homework problems each week (10 points).
 - The remaining problems will be graded on answer only (10 points).
- Three Term Exams (150 points)
 - Each exam is worth 50 points.
 - The first exam is on **Thursday, January 30.**
 - The second exam is on **Thursday, March 5.**
 - The third exam is on **Thursday, April 23.**
- Comprehensive Final Exam (200 points)
 - The first part of the final exam is on **Tuesday, May 12.**
 - The second part of the final exam is on **Thursday, May 14.**
- Total (550 points)

6 Grading Policy

Your grades will be calculated as follows.

Point Total	Grade
[539,550]	A+
[506, 539)	A
[495,506)	A-
[484,495)	B+
[451,484)	B
[440,451)	B-
[429,440)	C+
[385,429)	C
[374,385)	D+
[341,374)	D
[330,341)	D-
[0,330)	F

7 Make-up Policy

- Homework assignments will not be accepted after the due date, unless there is a valid reason.
- Students must be present on exam days. If you know that you will not be able to make it to class on an exam day, tell me **at least one week in advance** so we can make alternative arrangements.

8 Academic Integrity

We will follow university policy on academic integrity.

Having academic integrity is paramount to your success in any class. Plagiarism or cheating is not tolerated. Any instance of this will result in a grade of zero for that assignment. Here is the link to the UNM Academic Dishonesty Policy: <https://policy.unm.edu/regents-policies/section-4/4-8.html>. The policy states:

Each student is expected to maintain the highest standards of honesty and integrity in academic and professional matters. The University reserves the right to take disciplinary action, up to and including dismissal, against any student who is found guilty of academic dishonesty or who otherwise fails to meet the expected standards. Any student judged to have engaged in academic dishonesty in course work may receive a reduced or failing grade for the work in question and/or for the course.

"Academic dishonesty" includes, but is not limited to, dishonesty in quizzes, tests, or assignments; claiming credit for work not done or done by others; hindering the academic work of other students; misrepresenting academic or professional qualifications within or without the University; and nondisclosure or misrepresentation in filling out applications or other University records.

9 Students with Disabilities

If you have a documented disability, please provide me with a copy of your letter from Equal Access Services as soon as possible to ensure that accommodations are provided in a timely manner.

10 EQUAL OPPORTUNITY AND NON-DISCRIMINATION:

In an effort to meet obligations under Title IX, UNM faculty, Teaching Assistants, and Graduate Assistants are considered “responsible employees” by the Department of Education (see page 15 of this [link](#)). This designation requires that any report of gender discrimination which includes sexual harassment, sexual misconduct and sexual violence made to a faculty member, TA, or GA must be reported to the Title IX Coordinator at the Office of Equal Opportunity (oeo.unm.edu). For more information on the campus policy regarding sexual misconduct, see: <https://policy.unm.edu/university-policies/2000/2740.html>.