

UNM Valencia
MATH 1220-554, College Algebra
Spring 2023

Instructor: Michael Gonzales

e-mail: mgonza79@unm.edu

Office: LRC 107

Tutoring Hours: Tuesdays: 1200-1430, Wednesdays (at WTC): 1215-1315 Thursdays: 0845-1015, and by appointment

Class time and location:

MECS Division Chair: Ariel Ramirez (aramirez8@unm.edu)

Text: *College Algebra*, 2nd edition, by Jay Abramson. ISBN # 978-1-951693-41-1

Available to download for free at: <https://openstax.org/details/books/college-algebra-2e>

Course description: The study of equations, functions and graphs, reviewing linear and quadratic functions, and concentrating on polynomial, rational, exponential and logarithmic functions. Emphasizes algebraic problem solving skills and graphical representation of functions. (3 Credit Hours).

Prerequisites: Math 1215 or (1215X and 1215Y and 1215Z) or ACT Math ≥ 22 or SAT Math Section ≥ 540 or ACCUPLACER Next-Generation Advanced Algebra and Functions = 239-248. Check with your adviser to make sure you meet the requirements.

Course Outcomes: The course serves as preparation for Math 1240 and Math 1430. In this course, students will build on their knowledge of polynomial, rational, absolute value, radical, exponential and logarithm functions in several contexts. A complete list of the Student Learning Objectives for this course is given at the end of this syllabus.

Other Requirements:

- Reliable access to a computer or tablet, and Internet. A computer (laptop or desktop) is recommended. Preferred browsers are Chrome, Firefox, or Safari. The preferred operating systems are Windows or Apple.
- Access to UNM Learn requires use your UNM NetID to log into UNM Learn. You may access it directly via <https://canvas.unm.edu/>
- Standard or Scientific calculator. It cannot be an app on your cell phone.
- Adobe Reader (a free download), preferably version 11.0 or better.

Attendance/Participation (5%): You are expected to be on time for each class, stay the entire class, have the necessary course materials on hand, and participate in the lecture or group activities to receive full credit for attendance each day.

- **Absences:** If you know ahead of time you will miss class, send me an email with the date of the absence to receive an excused absence. Arrange before the next class to get notes from a classmate. The student is responsible for the material and information covered in class.

High School Assignments Homework (15%): Homework and assignments from high school will be contributing to this portion of the grade for the class.

Written Homework (35%): Problems assigned are listed on the schedule at the end of the syllabus and the problems will be found in the textbook which can be downloaded for free. See

the textbook section for the link to OpenStax. These written assignments must be completed and turned in by the due date listed on the schedule for full credit. Each written homework assignment is worth 100 points. A 5% penalty will be incurred for every day your homework is late, up to one week. Example: A homework assignment submitted three days late will have a maximum point possibility of 85. Additionally, your lowest homework assignment will be dropped.

Midterm Exam (20%): There is one midterm exam during the semester given during class. The midterm exam will cover the material from the beginning of the course. If you are ill or an unexpected event happens and cannot make it to the exam, you have one week to make it up. The final exam will cover all the sections in the course.

Final Exam (25%): The final is a cumulative exam that will test all, or nearly all, of the learning objectives for this course. The final exam must be taken during the week scheduled. You are allowed to take the final only once.

Grading: Course Averages: Attendance/Participation 5%, High School Assignments Homework 15%, Written Homework 35%, Midterm Exam 20%, Cumulative Final Exam 25%. Total: 100%

Grading Scale:

A+ [98% - 100%]	A [93% - 98%]	A- [90% - 93%]
B+ [88% - 90%]	B [83% - 88%]	B- [80% - 83%]
C+ [78% - 80%]	C [70% - 78%]	
D [60% - 70%]		
F [0% - 60%]		

Expectations:

- Students are expected to conduct themselves in a polite, courteous, professional, and collegial manner. When participating in discussions or interacting with me or other students be respectful at all times
- **Time for This Course:** Plan to spend a minimum of 9 to 12 hours per week for this class. There is no guarantee you will pass if you dedicate this amount of time, you still need to learn the material and use your time wisely, but those who pass generally are the ones who spend the time needed to do the work to learn the material.

Support:

- Form study groups: You may work together with other members of our class.
- Free Tutoring: The Math Center at Valencia campus has free tutoring and open labs. Call 505-925-8907 for more information. CAPS on main campus also provides tutoring for which I can get documentation.
- Student Services: There are various services provided in our Student Services Department. See below about equal access. Also, we have a testing center, advising, and career placement available: Valencia Student Services
- Work will be graded and returned with feedback within one week of submission. You are encouraged to do corrections and resubmit any written homework or project assignments to improve your grade up to two weeks after the due date.

Instructor Response Time: I routinely check the course for postings or emails, Monday (9 am) – Friday (5pm), and sometimes on the weekend. You can anticipate a 24 to 48-hour response from me, Monday – Thursday. I will try and respond to all weekend emails and postings by noon on Monday or earlier. I prefer all communication through email or Canvas Learn. When communicating through email, please email me through your UNM email address.

Other Important Information:

Equal Access: In accordance with University Policy 2310 and the Americans with Disabilities Act (ADA), academic accommodations may be made for any student who notifies the instructor of the need for an accommodation. It is imperative that you take the initiative to bring such needs to the instructor's attention, as I am not legally permitted to inquire. Students who may require assistance in emergency evacuations should contact the instructor as to the most appropriate procedures to follow. Contact Accessibility Resource Center at 277-3506 for additional information.

If you need an accommodation based on how course requirement interacts with the impact of a disability, you should contact me to arrange an appointment as soon as possible. At the appointment, we can discuss the course format and requirements, anticipate the need for adjustments and explore potential accommodations. I rely on the Disability Services Office for assistance in developing strategies and verifying accommodation needs. If you have not previously contacted them, I encourage you to do so.

If you are a Valencia campus student, contact Equal Access Services at Valencia Campus, Cheryl Dilger at (505) 925-8910 or Valencia Student Services. If you are a main campus student, you can receive documentation from the main campus Accessibility Resource Center. I will not guarantee accommodation without the appropriate documentation.

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:

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:

Academic Dishonesty is defined as:

“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.

Title IX Statement: Our classroom and our university should always be spaces of mutual respect, kindness, and support, without fear of discrimination, harassment, or violence. Should you ever need assistance or have concerns about incidents that violate this principle, please access the resources available to you on campus. Please note that, because UNM faculty, TAs, and GAs are considered “responsible employees” any disclosure of gender discrimination (including sexual harassment, sexual misconduct, and sexual violence) made to a faculty member, TA, or GA must be reported by that faculty member, TA, or GA to the university's Title IX coordinator. For more information on the campus policy regarding sexual misconduct and reporting, please see: <https://policy.unm.edu/university-policies/2000/2740.html>.

COVID-19 Health and Awareness: UNM is a mask friendly, but not a mask required, community. To be registered or employed at UNM, Students, faculty, and staff must all meet UNM's Administrative Mandate on Required COVID-19 vaccination. If you are experiencing COVID-19 symptoms, please do not come to class. If you have a positive COVID-19 test, please stay home for five days and isolate yourself from others, per the Centers for Disease Control (CDC) guidelines. If you do need to stay home, please communicate with me at [mgonza79@unm.edu]; I can work with you to provide alternatives for course participation and completion. UNM faculty and staff know that these are challenging times. Please let us know that you need support so that we can connect

you to the right resources and please be aware that UNM will publish information on websites and email about any changes to our public health status and community response.

Support: LoboRESPECT Advocacy Center <https://loborespect.unm.edu/>, the Women's Resource Center <https://women.unm.edu/>, and the LGBTQ Resource Center <http://lgbtqrc.unm.edu/> all offer confidential services.

- Student Health and Counseling (SHAC) at (505) 277-3136. If you are having active respiratory symptoms (e.g., fever, cough, sore throat, etc.) AND need testing for COVID- 19; OR If you recently tested positive and may need oral treatment, call SHAC.
- LoboRESPECT Advocacy Center (505) 277-2911 can offer help with contacting faculty and managing challenges that impact your UNM experience

Communications on Change in Modality: The university may direct that classes move to remote delivery at any time to preserve the health and safety of the students, instructor and community. Please check your email and your UNM Learn site regularly for updates about our class, and please check <https://bringbackthepack.unm.edu> regularly for general UNM updates about COVID-19 and the health of our community. If this occurs, there will be no in person office hours.

For Military-Connected Students: There are resources on campus designed to help you succeed. You can approach any faculty or staff for help with any issues you may encounter. Many faculty and staff have completed the GREEN ZONE training to learn about the unique challenges facing military-connected students. If you feel that you need help beyond what faculty and/or staff can give you, please reach out to the Veterans Resource Center on main campus at 505-277-3181, or by email at vrc@unm.edu. The Veterans Coordinator at UNM-Valencia is in the Student Services Office, at 505-925-8560.

Semester Dates and Deadlines:

- Spring 2023– 16-week classes (deadlines will be different for first and second 8-week classes)
- Tuesday, January 17: First day of class, classes available in Canvas
- Monday, January 16: Martin Luther King Day, no class
- Friday, January 27, by 5:00 pm: Last day to add a class or to change credit hours or grade mode in LoboWEB.
- Friday, February 3: Last day to drop without "W" grade and with 100% refund on LoboWEB
- Friday, April 14 : Last day to drop without Student Services' permission on LoboWEB. Will receive "W" grade and will be responsible for tuition for the course.
- Friday, May 5: Last day to drop with the permission form.
- Finals Week: Monday, May 8 – Saturday, May 13

MATH 1220 Course Student Learning Outcomes: The following are the objectives for the course. 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 these representations' connections.
3. Graph and interpret key features of functions, e.g., intercepts, leading term, end behavior, asymptotes, domain, and range.
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.
6. Communicate mathematical information using proper notation and verbal explanations.

Tentative Schedule

Week	Dates	Sections/Topics	Assignments Due
1	01/15-01/21	Introduction and Review	
2	01/22-01/28	Sections 2.1 and 2.3	Syllabus Quiz
3	01/29-02/04	Sections 2.5 and 2.6	Section 2.1 and 2.3 HW
4	02/05-02/11	Sections 2.7 and 3.1	Sections 2.5 and 2.6 HW
5	02/12-02/18	Sections 3.2 and 3.3	Sections 2.7 and 3.1 HW
6	02/19-02/25	Sections 3.4, 3.5	Sections 3.2 and 3.3 HW
7	02/26-03/04	Sections 3.6 and 3.7	Sections 3.4, 3.5 HW
8	03/05-03/11	Review and Midterm	Sections 3.6, 3.7 HW
9	03/12-03/18	Spring Break	
10	03/19-03/25	Section 4.1 and 4.2	
11	03/26-04/01	Section 5.1 and 5.2	Section 4.1 and 4.2 HW
12	04/02-04/08	Section 5.6 and 6.1	Section 5.1 and 5.2 HW
13	04/09-04/15	Section 6.2 and 6.3	Section 5.6 and 6.1 HW
14	04/16-04/22	Section 6.4 and 6.5	Section 6.2 and 6.3 HW
15	04/23-04/29	Section 6.6	Section 6.4 and 6.5 HW
16	04/30-05/06	Final Review	Section 6.6 HW
	05/07-05/13	Final Exams Week	May 8 - May 13