

**Instructor:** Cindi Goodman**email:** cyndia@unm.edu**Office:** LRC 109 and Zoom link**Phone:** 925-8573**Division Chair:** Ariel Ramirez aramirez8@unm.edu**Instructor Led Study Sessions:** Mon 1:30 pm – 3:30 pm, Tues/Thurs 12:00 pm – 3:00 pm**Online Study Sessions:** Tues 1:30 pm – 3:00 pm or by appointment**Zoom link:** <https://unm.zoom.us/j/92959115431>**Password:** Math

| Sect. | CRN | Class Time | Days | Location | MML Course Code |
|-------|-------|------------|--------|----------|-----------------|
| 505 | 54491 | Online | Online | Online | goodman24758 |

Course Description:

This course is a study of linear and quadratics functions, an introduction to polynomial, absolute value, rational, radical, exponential, and logarithmic functions. Development of strategies for solving single variable equations and contextual problems. (3 Credit Hours).

Prerequisites:

Appropriate placement score or a grade of C or better in Math 100 or Math 022 or FYEX 1010 or ISM 100 or ACT Math \Rightarrow 18 or SAT Math Section \Rightarrow 490 or ACCUPLACER Next-Generation Advanced Algebra and Functions \Rightarrow 228, or QRAS \Rightarrow 248, or Arithmetic \Rightarrow 285. Check with your adviser to make sure you meet the requirements.

Course Outcomes:

In this course, we will explore linear functions, systems of linear equations, linear inequalities, polynomials and factoring, rational functions, and radical functions, and we will introduce exponential and logarithmic functions. A complete list of the Student Learning Objectives for this course is given at the end of this syllabus.

Course Materials:

Textbook: "Developmental Mathematics," 2nd edition, by Sullivan, Struve, Mazzearella.

Required: Appropriate MyMathLab (MML) access code (do not purchase a generic code, the code is book specific). You may purchase the 18-week access code for a lower price, but you *cannot* upgrade to the lifetime code once you purchase the restricted one.

Optional: You may "upgrade" your access by purchasing a hard copy of the book directly from Pearson for an additional cost (between \$50 and \$60 before tax). There will be copies of the book on reserve for use in the library (you will not be able to take the book from the library home).

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.
- Administrative rights to download free software or plug-ins or add-ons on the computer you plan to use for this course. The first time you log in to the MyMathLab (MML) homepage, run

the Installation Wizard to ensure you have all the appropriate software installed. Also, make sure you are allowing popups.

- Pearson account. If you have used any of the Pearson My Lab products before, you can use the same account you created the first time you used it. Otherwise, you can create an account when you register in MyMathLab (MML) for this class. Register by going to mymathlab.com.
- Access to UNM Learn requires use your UNM NetID to log into UNM Learn. You may access it directly via learn.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.

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.
- Students are expected to complete all unit assignments by midnight Sunday of each week. Problems with the internet, Blackboard Learn, or MML are not excuses for turning in late work, as you have an entire week to complete the assignments.
- **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.

Attendance / Participation (10%)

You are expected to log in to Blackboard Learn and MyMathLab at least once weekly to complete all assignments by the due date. You are also required to attend one of the class introduction meetings scheduled during the first week using the online office hours zoom link provided or schedule a time to meet with me via Zoom during the first week of classes. **This is mandatory.** You will also need to schedule individual meetings with me at least three times during the semester. This is worth 10% of your overall grade

Absences: Although this is an online class, there are scheduled assignments to be completed weekly. If you do not log in to Blackboard Learn and MML to complete the assignments, you will be counted absent for that week.

Here are the reasons I may drop you from the class:

- If you miss the first week of the semester.
- You do not complete the Course Agreement in the Start Here Module by the end of the second week.
- If you are not registered in MML and completing assignments by the end of the first week you are in the class.

If you added late, your counted absences start the day you registered for the class.

Online MyMathLab Homework (15%)

Homework is assigned every week based on the 13 units in the course outline. Weekly assignments in MML must be completed by midnight Sunday of each week for full credit. After the due date you will need to contact me for the password to access online homework. **Each online homework assignment is worth 10 points.** A 10% penalty may be incurred if your homework is late. You will be able to go back to improve your grade after the due date.

Written Homework (20%)

Each unit will have a separate written homework due when the online homework is due. Problems assigned are listed on the schedule at the end of the syllabus and the problems will be found in the e-text in MML. These written assignments must be completed and submitted through the link in Blackboard Learn by midnight Sunday of each week for full credit. **Each written homework assignment is worth 10 points.** A 10% penalty may be incurred if your homework is late.

Projects (20%)

During the semester, projects will be assigned in each unit. You are encouraged to work with classmates on the project assignments. If working with a group, I require *individual* submissions of the project, not one group paper. The point value for each project is provided with the assignment. These project assignments must be completed and submitted through the link in Blackboard Learn by midnight Sunday of each week for full credit. The projects are worth 20% of your overall course grade. A 10% penalty may be incurred if your project is late.

Written work can be turned in at the Academics office to be put in my box, or you can scan each written assignment and project and save as a pdf and named with your first name, last initial, unit number and assignment.

EX: CindiG.unit1.HW or CindiG.unit5.project

If it is not saved and named correctly, I will not accept it after the second week. If you do not have access to a scanner, there are programs that are free on iPhones and androids to allow you to do this. Adobe scan works on both types of phones. If you need help learning how to do this, please meet with me as soon as possible. **Please write your name on your work for every assignment!**

I will accept three (3) late assignments only without penalty. After that, for each late assignment 10% of the grade will be deducted.

Exams (15%)

There will be two written exams during the semester. I will schedule time for the exam at least two different days and times during the week and is to be taken with me through Zoom. You must sign up for one of the exam dates or schedule a time with me a week in advance. The exams must be taken during the week scheduled. You will be given a formula sheet for each exam, and you can use a calculator. You can NOT use your phone for a calculator. You **cannot** do correction on the exams.

Final Exam (20%)

The final is a departmental exam that will test all, or nearly all, of the learning objectives for this course. I will schedule time for the final at least two different days and times during the week and is to be taken with me through Zoom.. If you cannot take the final during any of the scheduled times with me, you must contact me and schedule a time to take your final exam. The final exam must be taken during the week scheduled. You will be given a formula sheet for

the final, and you can use a calculator. You can NOT use your phone for a calculator. You are allowed to take the final only once.

You must score a 70% or better on the Final Exam to earn a passing grade in this class. You must also have a 70% course average to earn a passing grade, but this should not be a problem if you have been completing your work and showing progress.

DO NOT consider any of the grades posted in MyMathLab as representing your actual grade.

SUPPORT: If you are struggling in this course, do not be afraid to ask for help!

- Ask My Instructor: Please use the Ask My Instructor button in MyMathLab. This button is available in the computational assignments and the quizzes and sends a message to my email with a link to the question. Do not just send the link; tell me where in the problem you are struggling.
- Office Hours: See my office hours listed at the beginning of this syllabus. Feel free to come by or log in for online office hours or make an appointment to get help.
- 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 (7 am) – Friday (noon), 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 (Friday afternoon to Sunday) emails and postings by noon on Monday or earlier. I prefer all communication through Blackboard Learn.

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:

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 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: 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 pg. 15 - <http://www2.ed.gov/about/offices/list/ocr/docs/qa-201404-title-ix.pdf>). 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>

COVID-19 Statement:

UNM requires COVID-19 vaccination and a booster for all students, faculty, and staff, or an approved exemption (see: UNM Administrative Mandate on Required Vaccinations). Proof of vaccination and booster, or a medical, religious, or online remote exemption, must be uploaded to the UNM vaccination verification site. Failure to provide this proof may result in a registration hold and/or disenrollment for students and disciplinary action for UNM employees. **Booster Requirement:** Individuals who received their second dose of a Pfizer or Moderna vaccine on or before June 15, 2021, or their single dose of a Johnson & Johnson vaccine on or before October 15, 2021, must provide documentation of receipt of a booster dose no later than January 17, 2022. Individuals who received their second dose of a Pfizer or Moderna vaccine after June 15, 2021 or who received their single dose of Johnson & Johnson after November 15, 2021 must provide documentation of receipt of a booster within four weeks of eligibility, according to the

criteria provided by the FDA (6 months after completing an initial twodose Moderna vaccine, 5 months after completing the Pfizer sequence, and 2 months after receiving a one-dose Johnson and Johnson vaccine). International students: Consult with the Global Education Office. Exemptions: Individuals who cannot yet obtain a booster due to illness should request a medical, religious, or online remote exemption (which may have an end date) and upload this to the vaccination verification site. Medical and religious exemptions validated in Fall 2021 (see your email confirmation) are also valid for Spring 2022 unless an end date was specified in the granting of a limited medical exemption. Students must apply for a remote online exemption every semester.

UNM Requirement on Masking in Indoor Spaces

All students, staff, and instructors are required to wear face masks in indoor classes, labs, studios and meetings on UNM campuses, see the masking requirement. Students who do not wear a mask indoors on UNM campuses can expect to be asked to leave the classroom and to be dropped from a class if failure to wear a mask occurs more than once in that class. Students and employees who do not wear a mask in classrooms and other indoor public spaces on UNM campuses are subject to disciplinary actions. Medical/health grade masks are the best protection against the omicron variant and these masks should be used, rather than cloth. Syllabus Language: COVID-19 Symptoms and Positive Test Results: Please do not come to a UNM campus if you are experiencing symptoms of illness, or have received a positive COVID-19 test (even if you have no symptoms). Contact your instructors and let them know that you should not come to class due to symptoms or diagnosis. Students who need support addressing a health or personal event or crisis can find it through the PASOS Resource Hub located in the Learning Resource Center. To schedule an appointment with a counselor, call 505-925-8591.

Communication 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.

Course Averages:

| | |
|--------------------------------|-------------|
| Attendance/Class Participation | 10% |
| MyMathLab Homework | 15% |
| Written Homework | 20% |
| Projects (13) | 20% |
| Term Exam (2) | 15% |
| Cumulative Final Exam* | <u>20%</u> |
| Total | 100% |

***You must score at least a 70% on the final exam *and* have a course average of 70% or better to earn a passing grade in the course.**

Grading Scale:

| Letter Grade | Final Exam score AND Course Weighted Average |
|--------------|---|
| A | 70% or better AND 90% or better |
| B | 70% or better AND 80% to 89% |
| C | 70% or better AND 70% to 79% |
| CR | 70% or better AND 70% or better |
| NC | Less than 70% AND Any course grade |

In the case where a student is unsuccessful in the course, if a grade is required for financial aid, please inform the professor.

Semester Deadlines

- Spring 2022– 16-week classes (deadlines will be different for first and second 8-week classes)
- Monday, January 17: Martin Luther King Jr. Day
- Monday, January 17: First day of class, classes available in Blackboard Learn
- Friday, January 28, by 5:00 pm: Last day to add a class or to change credit hours or grade mode in LoboWEB.
- Friday, February 4: Last day to drop without "W" grade and with 100% refund on LoboWEB
- March 9-13 Spring Break, no classes
- Friday, April 15: Last day to drop *without* Dean's permission on LoboWEB. Will receive "W" grade and will be responsible for tuition for the course.
- Friday, May 6: Last day to drop with the permission form.
- May 9-13 Final Exam Week

Math 1215: Intermediate Algebra (Spring 2022) (*Course outline is subject to change*)

| Week | Dates | Sections / Topics | Written Homework Assignments All assignments are due by midnight Sunday of the unit week |
|------------------|------------------|--|---|
| 1-2 | | Start Here Assignments | Due by 5:00 pm Friday, January 28 |
| 1 | 1/17-1/23 | <i>Unit 1: Sects. 8.3 & 8.4</i> | Sect. 8.3 #105, 113 Sect. 8.4 #55, 83, 73 Project 1 |
| 2 | 1/24-1/30 | <i>Unit 2: Sects. 8.8 & 8.6</i> | Sect. 8.6 #43, 54 Sect. 8.8 #91, 119 Project 2 |
| 3 | 1/31-2/6 | <i>Unit 3: Sects. 9.1, 9.2, 9.3, 9.4, 9.5</i> | Sect. 9.1 #65 Sect. 9.2 #123 Sect. 9.3 #71 Sect. 9.4 #95 Sect. 9.5 #71 Project 3 |
| 4 | 2/7-2/13 | <i>Unit 4: Sects. 9.6 & 10.1</i> | Sect. 9.6 #71, 87 Sect. 10.1 #71, 89 Project 4 |
| 5 | 2/14-2/20 | <i>Unit 5: Sects. 10.2 & 10.3</i> | Sect. 10.2 #53, 56 Sect. 10.3 #69, 71 Project 5 |
| 6 | 2/21-2/27 | Midterm 1 | February 21-February 24 |
| 7 | 2/28-3/6 | <i>Unit 6: Sects: 11.1, 11.2, 11.3, 11.4, 11.6</i> | Sect. 11.1 #121 Sect. 11.2 #79 Sect. 11.3 #139 Sect. 11.4 #105 Sect. 11.6 #92 Project 6 |
| 8 | 3/7-3/13 | <i>Unit 7: Sects. 12.1, 12.2, 12.3</i> | Sect. 12.1 #87 Sect. 12.2 #94, 95 Sect. 12.3 #75, 77 Project 7 |
| 3/14-3/20 | | Spring Break | |
| 9 | 3/21-3/27 | <i>Unit 8: Sects. 14.1, 14.2, 14.3, 14.4</i> | Sect. 14.1 #66 Sect. 14.2 #55 Sect. 14.3 #55, 57 Sect. 14.4 #37 Project 8 |
| 10 | 3/28-4/3 | <i>Unit 9: Sects. 15.1, 12.6,</i> | Sect. 15.1 #75 Sect. 12.6 #79 Sect. 16.2 #87 |

| | | | |
|----|-----------|--|--|
| | | | Sect. 16.5 #75 Project 9 |
| 11 | 4/4-4/10 | Midterm 2 | April 4-April 7 |
| 12 | 4/11-4/17 | <i>Unit 10: Sect: 13.1, 13.2, 13.3</i> | Sect. 13.1 #91 Sect. 13.2 #79 Sect. 13.3 #87 Project 10 |
| 13 | 4/18-4/24 | <i>Unit 11 Sect. : 13.5, 13.7, 14.7</i> | Sect. 13.5 #87 Sect. 13.7 #41, 43 Sect. 14.7 #91 Project 11 |
| 14 | 4/25-5/1 | <i>Unit 12: Sec 15.2, 15.3, 15.4, 15.8</i> | Sect. 15.2 #141 Sect. 15.3 #35 Sect. 15.4 # 137 Sect. 15.8 #99 Project 12 |
| 15 | 5/2-5/8 | <i>Unit 13: 17.2, 17.3</i> | Sect. 17.2 #93 Sect. 17.3 #125 Project 13 |
| | | Review and all late assignments and corrections | No assignments accepted after Sunday May 8 |
| 16 | 5/9-5-12 | Final Exams Week | May 9- May 12 |

MATH 1215 COURSE STUDENT LEARNING OUTCOMES:

Upon successful completion of the course, students will be able to:

- A. Demonstrate appropriate use of basic function language and notation.
 1. Communicate or present mathematical concepts using correct mathematical notation and terminology.
 2. Correctly use function notation and vocabulary related to functions.
 3. Determine function values for given domain values and determine domain values for given function values.
 4. Determine domains for specific functions.
- B. Convert between equivalent forms of algebraic expressions.
 1. Simplify expressions using properties of exponents.
 2. Add, subtract, and multiply polynomials.
 3. Rewrite line equations in different forms (slope-intercept, point-slope, standard)
 4. Factor some types of polynomials.
 5. Simplify radical expressions.
 6. Rewrite exponential functions in logarithmic form and vice versa.
- C. Solve single-variable equations of the types listed above.
 1. Solve for a single variable in a proportion.
 2. Solve for a single variable in a linear equation.

3. Solve for a specified variable in a formula.
 4. Solve quadratic equations using factoring, quadratic formula, and the square root method.
 5. Solve equations containing rational expressions.
 6. Solve equations containing radical expressions.
 7. Solve absolute value equations in one variable.
 8. Solve exponential and logarithmic equations using equating bases.
- D. Interpret and communicate algebraic solutions graphically and numerically.
1. Determine equations for lines in the three forms – slope-intercept and point-slope.
 2. Sketch the graphs of linear functions.
 3. Interpret slope in relation to variable coefficients and as a rate of change.
 4. Graph linear inequalities in one variable on a number line and write corresponding interval notation.
 5. Determine when linear equations represent parallel and perpendicular lines.
 6. Sketch graphs of quadratic functions.
- E. Demonstrate contextual problem-solving skills that include setting up and solving problems and interpreting solutions in context.
1. Determine linear equations from application problems and solve.
 2. Set up a linear proportion from an application problem and solve.
 3. Analyze solutions to application problems and give them contextual meaning.
 4. Determine the three types of outcomes from a system of linear equations in the context of what the graphs look like (terminology about consistent/inconsistent or dependent/independent not emphasized)
 5. Determine a system of linear equations from an application problem and solve if possible.
- F. Apply appropriate problem-solving methods from among algebraic, graphical, and numerical.
1. Perform unit conversions.
 2. Solve linear inequalities in one variable.
 3. Simplify expressions written in scientific notation.
 4. Simplify multiplication and division problems using scientific notation.
 5. Apply solution methods learned to application problems.
 6. Solve systems of two linear equations graphically and algebraically.
 7. Solve problems including percent
 8. Perform operations with radical expressions.
 9. Perform operations with rational expressions.
 10. Solve absolute value inequalities in one variable.

Completing Math 1215 meets the prerequisites for Math 1130, Math 1350, Math 1220, and some science classes.