Welcome to MATH 1215.504: Intermediate Algebra – Fall 2024 (Online Class)

Instructor
    Cindi Goodman
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    Office: LRC 109 and Zoom scheduled
    times

Class Details:
    Online
    CRN 70824
    MML through RedShelf in Canvas

Instructor led study sessions:
    Mon/Wed-- in person
            9:00-10:00 am
            1:30-2:30 pm
    Mon --online
            1:30-2:30 pm
    or by appointment

Zoom link:
    https://unm.zoom.us/j/96644343017
        Passcode: mathhelp

MECS Division Chair:
    Ariel Ramirez
    aramirez8@unm.edu

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 =>18 or SAT Math Section =>490 or ACCUPLACER Next-Generation Advanced Algebra and Functions =>228, or QRAS=>248, or Arithmetic=>285, or LCPMAS score 4-5. 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.

Credit-hour Statement: This is a three credit-hour course. An in-person class meets for two 75-minute sessions of direct instruction for sixteen weeks during the Fall 2024 semester plus a minimum of six hours to complete coursework. Please plan for a minimum of nine hours of out-of-class work (or homework, study, assignment completion, and class preparation) each week.

Course Materials:

Textbook: "Developmental Mathematics," 2nd edition, by Sullivan, Struve, Mazzarella.
    Required: You will access the E-text and online homework assignments through Redshelf in Canvas.
    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. Register through Canvas by going to the RedShelf link and select Courseware.
- Access to UNM Canvas requires you to use your UNM NetID to log into UNM Canvas. You may access it directly via 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.

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 11:59 pm Monday of each week. Problems with the internet, Canvas, 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 UNM Canvas and MyMathLab at least once weekly to complete all assignments by the due date. You are also required to meet with me in person or via Zoom during the first week of classes. **This is mandatory**. 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 UNM Canvas 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 11:59 pm Monday of each week for full credit. The online homework cannot be completed late or made up. **Each online homework assignment is worth 10 points**.

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

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, saved as a pdf document, named correctly and submitted through the link in UNM Canvas by 11:59 pm Monday 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. No work will be accepted after one week past the due date.

Projects (20%)

During the semester, there will be 3 projects. 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, saved as a pdf document, named correctly, and submitted through the link in UNM Canvas by 11:59 pm Thursday of the week it is due for full credit. The projects are worth 20% of your overall course grade. A 10% penalty may be incurred if your homework is late. No work will be accepted after one week past the due date.

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**. Name the file with your first name, last initial, unit number and assignment.
> **EX: CindiG.unit1.HW**

If it is not saved and named correctly, I will not accept it. 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 two (2) late assignments **only** without penalty. After that, for each late assignment 10% of the grade will be deducted. No work will be accepted after one week past the due date!

Late Policy:

All work is to be submitted by 11:59 pm Monday of the week due. All written homework and projects must be saved as one pdf document and named correctly. I will accept written work up to one week late, 10% will be deducted for work turned in after the due date. MML online homework will not be accepted late. **No work will be accepted more than a week past the day it is due.**

You are encouraged to do corrections on written homework to improve your score. You can only do corrections once on an assignment, and only if it was submitted on time.

Corrections must be submitted no more than two weeks past the original due date.

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 it is to be taken in person with me, at a campus testing center or with an approved proctor. 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 scientific calculator (not a graphing calculator). You can NOT use your phone for a calculator. You **cannot** do corrections 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 it is to be taken in person with me, at a campus testing center or with an approved proctor. 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 scientific calculator (not a graphing 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.

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 Instructor led study sessions 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 UNM Canvas.

Course Averages:

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

*You must score at least 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 Fall 2024– 16-week classes

- Monday, August 19: First day of class, classes available in UNM Canvas
- Saturday, August 30, by 11:59 pm: Last day to add a class or to change credit hours or grade mode in LoboWEB..
- Monday, September 2: Labor Day, NO CLASS
- Friday, September 6, by 5:00 pm: Last day to drop without "W" grade and with 100% refund on LoboWEB
- Thursday and Friday, October 10-11: Fall Break
- Friday, November 8, by 5:00 pm: Last day to drop *without* Dean's permission on LoboWEB. Will receive a "W" grade and will be responsible for tuition for the course.
- Thursday and Friday, November 28-Dec 1 Thanksgiving Break, NO CLASS
- Friday, December 5, by 5:00 pm: Last day to drop with the permission form.
- Final Exam Monday-Wednesday, December 9-11, Scheduled time

University Policies

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 cyndia@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 me, an advisor, or another UNM staff member know that you need support so that we can connect you to the right resources. Please be aware that UNM will publish information on websites and email about any changes to our public health status and community response.

Accommodations: UNM is committed to providing equitable access to learning opportunities for students with documented disabilities. As your instructor, it is my objective to facilitate an inclusive classroom setting, in which students have full access and the opportunity to participate. To engage in a confidential conversation about the process for requesting reasonable accommodations for this class and/or program, please contact the UNM-Valencia Equal Access Services (Sarah Clawson, Coordinator), at (505) 925-8840 or by email at sjclawson@unm.edu.

UNM is committed to providing courses that are inclusive and accessible for all participants. As your instructor, it is my objective to facilitate an accessible classroom setting, in which students have full access and opportunity.

If you are experiencing physical or academic barriers, or concerns related to mental health, physical health and/or COVID-19, please consult with me after class, via email/phone or during office hours. You are also encouraged to contact Accessibility Resource Center at arcsrvs@unm.edu or by phone 277-3506.

If you are a Valencia campus student, contact Equal Access Services at Valencia Campus at (505)925-8560 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.

Any student judged to have engaged in academic dishonesty in course work may receive a reduced or failing grade for the work in question or for the course.

Respectful and Responsible Learning: We all have shared responsibility for ensuring that learning occurs safely, honestly, and equitably. Submitting material as your own work that has been generated on a website, in a publication, by an artificial intelligence algorithm, by another person, or by breaking the rules of an assignment constitutes academic dishonesty. It is a student code of conduct violation that can lead to a disciplinary procedure. *Please ask me for help in finding the resources you need to be successful in this course. I can help you use study resources responsibly and effectively.* Off-campus paper writing services, problem-checkers and services, websites, and AIs can be incorrect or misleading. You can only learn the course material if you complete and submit your own work. UNM preserves and protects the integrity of the academic community through multiple policies including policies on student grievances (Faculty Handbook D175 and D176), academic dishonesty (FH D100), and respectful campus (FH CO9). These are in the *Student Pathfinder* (https://pathfinder.unm.edu) and the *Faculty Handbook* (https://handbook.unm.edu).

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 Reporting Obligations: 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, especially the LoboRESPECT Advocacy Center and the support services listed on its website (http://loborespect.unm.edu/). Please note that, because UNM faculty, TAs, and GAs are considered "responsible employees" by the Department of Education, 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 at the Office of Compliance, Ethics, and Equal Opportunity. For more information on the campus policy regarding sexual misconduct, please see: https://policy.unm.edu/university-policies/2000/2740.html.

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.

: Founded in 1889, the University of New Mexico sits on the traditional homelands of the Pueblo of Sandia. The original peoples of New Mexico Pueblo, Navajo, and Apache since time immemorial, have deep connections to the land and have made significant contributions to the broader community statewide. We honor the land itself and those who remain stewards of this land throughout the generations and also acknowledge our committed relationship to Indigenous peoples. We gratefully recognize our history.

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.

Math 1215: Intermediate Algebra (Fall 2024) (*Course outline is subject to change*)

Week	Dates	Sections / Topics	Online and Written Homework Assignments Due
			All assignments are due by 11:59 pm Monday of the unit week
1	8/19-8/25	Start Here Assignments *Unit 1: Sects. 8.3 & 8.4*	**Due by midnight, August 26**
2	8/26-9-1	*Unit 2: Sects. 8.8 & 8.6*	**Due 11:59 pm Monday, Aug. 26, Unit 1** Sect. 8.3: (pg. 555) #63, 68, 73, 105, 113 Sect. 8.4: (pg. 565) #27, 49, 55, 73, 83
3	9/2-9/8	*Unit 3:* Sects. 9.1, 9.2, 9.3, 9.4, 9.5	**Due 11:59 pm Monday, Sept. 2, Unit 2** Sect. 8.6: (pg. 586) #23, 27, 35, 43, 54 Sect. 8.8: (pg. 607) #61, 77, 85, 91, 119
4	9/9-9/15	*Unit 4: Sects. 9.6 & 10.1*	**Due 11:59 pm Monday, Sept. 9, Unit 3** Sect. 9.1: (pg. 630) #65 a-d Sect. 9.2: (pg. 644) #123 Sect. 9.3: (pg. 652) #29, 41, 43 Sect. 9.4: (pg. 663) #95 a and b Sect. 9.5: (pg. 670) #29, 31, 53
5	9/16-9/22	*Unit 5: Sects. 10.2 & 10.3*	**Due 11:59 pm Monday, Sept. 16, Unit 4** Sect. 9.6: (pg. 678) #67, 71, 81, 87 Sect. 10.1: (pg. 707) #21, 23, 29, 31, 71, 89
6	9/23-9/29		**Due 11:59 pm Monday, Sept. 23, Unit 5** Sect. 10.2: (pg. 715) #13, 21, 27, 53, 56 Sect. 10.3: (pg. 724) #17, 19, 27, 69, 71
7	**9/30-10/6**	*Midterm 1* *Unit 6: Sects: 11.1, 11.2, 11.3, 11.4,11.6*	**September 24- September 27** **Due 11:59 pm Thursday, September 26** **ProjectX Units 1-5**
8	10/7-1013	*Unit 7:* Sects. 12.1, 12.2, 12.3	**Due 11:59 pm Monday, Oct. 7, Unit 6** Sect. 11.1: (pg. 765) #77, 121 Sect. 11.2: (pg. 772) #79 Sect. 11.3: (pg. 781) #79, 139 Sect. 11.4: (pg. 794) #77, 105 Sect. 11.6: (pg. 808) #79, 83, 92
9	10/14-10/20	*Unit 8: Sects. 14.1, 14.2, 14.3, 14.4*	**Due 11:59 pm Monday, Oct. 14, Unit 7** Sect. 12.1: (pg. 826) #57, 87, 93 Sect. 12.2: (pg. 834) #57, 94, 95 Sect. 12.3: (pg. 844) #75, 77, 79, 83
10	10/21-10/27	*Unit 9:* Sects. 15.1, 12.6,	**Due 11:59 pm Monday, Oct. 21, Unit 8** Sect. 14.1: (pg. 979) #66 Sect. 14.2: (pg. 986) #25, 29, 55 Sect. 14.3: (pg. 996) #27, 49, 55, 57 Sect. 14.4: (pg. 1005) #29, 37
11	10/28-11/3		**Due 11:59 pm Monday, Oct. 28, Unit 9** Sect. 15.1: (pg. 1069) #57, 75 Sect. 12.6: (pg. 865) #43, 61, 79 Sect. 16.2: (pg. 1163) #29, 59, 87 Sect. 16.5: (pg. 1197) #17, 75
12	**11/4-11/10**	*Midterm 2* *Unit 10: Sect: 13.1, 13.2, 13.3*	**October 29-November 1** **Due 11:59 pm Thursday, October 31** **ProjectY Units 6-9**

13	11/11-11/17	*Unit 11 Sect. :* 13.5, 13.7, 14.7	**Due 11:59 pm Monday, Nov. 11, Unit 10** Sect. 13.1: (pg. 889) #33, 57, 91 Sect. 13.2: (pg. 896) #22, 26, 79 Sect. 13.3: (pg. 903) #31, 36, 63, 87
14	11/18-11/24	*Unit 12:* Sec 15.2, 15.3, 15.4, 15.8	**Due 11:59 pm Monday, Nov. 18, Unit 11** Sect. 13.5: (pg. 920) #32,73, 87 Sect. 13.7: (pg. 940) #30, 41, 43, 49, 51 Sect. 14.7: (pg. 1042) #65, 91
15	11/25-12/1	*Unit 13:* 17.2, 17.3	**Due 11:59 pm Monday, Nov. 25, Unit 12** Sect. 15.2: (pg. 1076) #69, 87, 89, 141 Sect. 15.3: (pg. 1083) #18, 35 Sect. 15.4: (pg. 1091) # 99, 137 Sect. 15.8: (pg. 1117) #42, 99
16	12/2-12/6	***Review 1215X, Y and Z***	**Due 11:59 pm Monday, Dec. 2, Unit 13** Sect. 17.2: (pg. 1252) #59, 71, 75, 81, 93 Sect. 17.3: (pg. 1266) #29, 37, 93, 94, 125
			Due 11:59 pm Thursday, December 5 **ProjectZ Units 10-13** **No assignments accepted after** **5:00 Friday, December 6**
	12/9-12/11	**Final Exams Week**	**December 9-December 12**