

Math 1220: College Algebra (SU24) Hyflex (Remote-Synchronous and F2F)

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Please note: This syllabus is subject to change, if needed.

1 Office and Contact Information:

Office: A-123B

Email: ataylor19@unm.edu (this is the absolute best way to get in touch with me, quickly!)

2 Student Hours (Instructor-Led Help Sessions):

- O Mondays & Wednesdays:
 - 1:30pm-3pm in Zoom room indicated, below:
 https://unm.zoom.us/j/98190874379 (Opened by email request, no passcode, authenticated UNM Zoom account required)
- OR BY APPOINTMENT!

3 UNM Course Description:

Welcome to Math 1220! Here is the UNM 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.

Prerequisites: Successful completion of MATH 1215 or minimum ACCUPLACER score of 239-248 (Advanced A and F) or math ACT score of 22-24, or math SAT score of 510-569

4 Student Learning Outcomes (SLOs):

At the completion of this course students will be able to:

- 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.
- 3. Graph and interpret key feature of a wide variety of functions (such as absolute-value, piece-wise, linear, quadratic, higher-order polynomials, rational functions, exponential functions, logarithmic 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.

5 Technical Requirements:

- A Laptop/tablet/personal computer (if you don't have one, laptops are available to rent for free in the UNM Valencia Library: http://valencia.unm.edu/library/index.html), and there are computers available for use throughout the LRC on UNM Valencia Campus.
- High-Speed Internet Connection (highly recommended)

Any computer capable of running a recently updated web browser should be sufficient to access your online course. However, bear in mind that processor speed, amount of RAM and Internet connection speed can greatly affect performance. Be aware, some programs that use mathematics will not work well on mobile devices such as smart phones or tablets.

Microsoft Office products are available free for all UNM students!

UNM IT Software Distribution and Downloads page: http://it.unm.edu/software/index.html

Please update your contact information in LoboWeb: http://my.unm.edu/home

When you log into MyUNM, Enter LoboWeb. Click on the Personal Information link to make sure your contact information is up to date.

Web Conferencing

Web conferencing may be used in this course if needed for office hour appointments. If you are utilizing web conferencing:

- A USB headset with microphone is recommended. Headsets are widely available at stores that sell electronics, at the UNM Bookstore or online.
- A high-speed internet connection is highly recommended for these sessions. A wireless Internet connection may be used if successfully tested for audio quality prior to web conferencing.

- You should also dress as you would when attending an in-person class, even if you do not turn on your video camera (mistakes happen -- please be properly clothed).
- To create a UNM supported Zoom account, visit https://unm.zoom.us

6 Class Text and Program:

The text (or eText) for this course is:

- College Algebra, 5th edition by Sullivan & Sullivan
- MyLab (Pearson) access will be required in order to complete homework assignments. There
 will be some suggested problems to practice for written homework, in addition to the online
 work.

Note: MyLab is a paid access program. Click on the "RedShelf Course Materials" tab in Canvas to access MyLab for the semester. This will charge your Bursar's account for the e-book + MyLab access.

7 Attendance Policy:

"Attendance" in an online/hybrid class encompasses your weekly log-in to Canvas, participating in meetings (if applicable), watching the lecture videos, taking notes, keeping current with assignments and studying, visiting Student Hours when needed. Attendance is highly-recommended, but not required. I do understand that sometimes life circumstances can prevent students from performing with perfect consistency every week. This is your class, you're paying for it, you can decide whether or not you show up. That being said, staying active in the class every week, spreading your studying and class effort throughout the week, is one of the best ways to help ensure your success in passing. Being present, participating, and staying on top of the material are great contributors to success.

8 Submitting Assignments/Exams (VERY IMPORTANT – READ CAREFULLY):

You must submit written assignments (with exception of exams) as a **single PDF document in the appropriate Canvas dropbox** by the due date. All assignments and work therein should be neat, legible, appropriately organized, and include detailed and well-justified work. **Any work that is illegible, or that lacks proper substance/explanation/justification will not receive credit.** It is up to you to ensure you are submitting a single PDF file that isn't corrupted/unable to be opened, and is attached properly to the appropriate dropbox by the due date. **Please make sure to show ALL your work so that partial credit can be awarded for simple mistakes.** Remember, you can use words to explain your thinking alongside your mathematics. Conveying your thought process to me is the most important element in your written work; if you understand the process and the idea, and mess up on arithmetic somewhere, you will earn the vast majority of the credit for a given problem. However, if you just have an answer (which is the result of an arithmetic error), and you haven't explained your thought process, I have nothing to award credit for without evidence of your understanding.

8.1 Written Assignments/Projects:

All written projects must be submitted in the appropriate Canvas dropbox, in the correct format (single PDF of the original document), on time in order to be accepted. If the file link is broken or doesn't otherwise open properly on my end, it will be considered missing and receive a 0 grade. Please prevent this by double checking your submission before you walk away and make SURE it is what you want to submit. You will have two attempts if you accidentally mess up one submission (both submissions must still be before the due date). Only a late pass can allow for late submission of a project.

In order to convert your file to a PDF, you have a couple easy options:

- 1) Use a traditional printer/scanner (some available on UNM Valencia/UNM Main Campus) in order to create the PDF of your work, download to your computer/storage device, and upload the file in the appropriate dropbox.
- 2) Download the free `Adobe Scan' app for your smartphone, create a PDF using your phones camera in the app, send a copy to your email, download the file on your computer/storage device, and upload the file in the Canvas dropbox.

The following method will <u>NOT</u> be accepted:

 Copying and pasting an image of your work into a Microsoft Word document, saving as a PDF, then submitting this file. This method often makes your work VERY difficult to read and looks very unprofessional in the submission.

8.2 Late Passes:

You have 3 late passes for the semester. Using a late pass grants you up to 5 additional days to submit an assignment. You may use them on **any homework or project, but NOT assessments such as exams.** In order to use a late pass, <u>you must let me know in advance</u> of the due date. You do not need to present me with a doctor's note, or provide any reason for using a late pass (it doesn't matter whether you're sick or going to a concert – that's up to you). However, I'd highly recommend saving them until you really **need** them. Once you've used your passes, that's all you get. If you have incredibly emergent circumstances (long-term stay in hospital, etc.), just let me know, and I will examine those circumstances on a case-by-case basis. In those cases, if approved, you may be asked to provide evidence of that circumstance.

8.3 Submitting Exams: (VERY IMPORTANT: Please read carefully!)

We will have two **in-person**, **handwritten** exams at UNM Valencia campus, this semester, detailed in section 11 of the syllabus (Course Structure), as well as in the Course Schedule document. If you live far away from UNM Valencia campus, you may schedule to take the exam in a college/university testing center near you **on the same day.** VERY IMPORTANT: if you plan to take this exam at UNM Main Campus testing center, please make sure to make your appointment well in advance of the exam to ensure you have a time-slot available for you. If you are unable to find a proctor for your exam by the day before your exam, you must either travel to UNM Valencia to take the exam with me, or miss the exam and accept a 0 grade. **I will not send an exam to a proctor on the day of the exam.** Please heed this advice in order to avoid such a situation: schedule early if you must take your exam elsewhere, and keep in communication with me well in advance of the exam.

If you <u>must</u> miss an exam (i.e. absolutely cannot take it on the day scheduled in the syllabus), it is your responsibility to let me know at least one week in advance (preferably two weeks in advance), so that you have adequate time to set an appointment to make it up **before** the assessment, during my office hours, or at a university/college testing center <u>with a proctor</u>. If you must use a university testing center, and there isn't a proctor, you will not be able to make up the assessment, and it will be counted as a 0. The proctor/testing center must reach out/correspond with me and confirm they are able to proctor your assessment.

9 Communication with Instructor:

The absolute MOST RELIABLE way to communicate with me as quickly as possible is to **send me an email**. If you ask a question via the homework platform, or via Canvas messages, I won't see it as quickly as if you send me an email. I routinely check for student emails, Monday through Friday, at various times throughout the morning, afternoon and evening, as well as occasionally on weekends. You can typically expect a response within 24 hours during the work week. If I haven't responded within 48 hours, please resend your email, as it may have (accidentally) been overlooked!

10 Expectations for Students:

Please note that in order to be successful in this course, and in mathematics courses in general, you will need to spend a fair amount of time each week working on this course.

Here are my recommendations for the <u>minimum</u> amount of time you should be spending in this course, each week.

MyLab Homework: 6-8 hours/week

Student Hours: 30 min to 1 hour per week.

<u>General Studying:</u> 2-4 hours/week outside of homework and office hours. Can include looking over notes from class, looking over notes posted in Canvas, practicing additional written problems. I'd highly recommend taking notes over things that stand out to you in class: examples, impactful things that are said that make sense to you, or interesting questions posed by students and discussed in class. There will be a fair amount of discussion of problems from the text, and I will post power point slides from the publisher for some notes on definitions, with some examples.

11 Course Structure:

This course will consist of the following graded components:

Homework (35%):

(MyLab Homework Assignments)

- You'll have ~2 assignments per week.
- Your lowest 2 homework scores will be dropped.
- Late homework can only be accepted with the "3 late pass policy."

Recommended practice problems (not due for a grade, just for study) are posted on final page.

Projects (15%):

You'll have 3 projects this semester, each worth 5% of your grade.

Midterm Exam (25%):

The midterm exam will be given on Thursday, June 27th, 2024 from 12pm-2pm. Please note this is an **in-person exam, at the UNM Valencia Workforce Training Center, Rm. 1207.** You may have this exam proctored at a university testing center so long as you arrange to do so with myself and the proctor/center and these plans are finalized at least 2 days before the exam.

Final Exam (25%):

The comprehensive final exam will be given in class on Tuesday, July 30th, 2024 from 12pm-2pm. Please note this is an **in-person exam**, **at the UNM Valencia Workforce Training Center**, **Rm. 1207**. You may have this exam proctored at a university testing center so long as you arrange to do so with myself and the proctor/center and these plans are finalized at least 2 days before the exam.

For written assessment submissions such as exams/projects, you should typically expect your grades within one week. Assignments through MyLab should offer immediate grading upon submission.

12 Grading Policy:

Cumulative Average at End-of-Course	Final Grade in Class
$96.5 \le Avg \le 100 +$	A+
$93 \le Avg < 96.5$	A
$89.5 \le Avg < 93$	A-
$86.5 \le Avg < 89.5$	B+
$83 \le Avg < 86.5$	В
$79.5 \le Avg < 83$	B-
$76.5 \le Avg < 79.5$	C+
$69.5 \le Avg < 76.5$	С
$66.5 \le Avg < 69.5$	D+
$63.5 \le Avg < 66.5$	D
$59.5 \le Avg < 63.5$	D-
<i>Avg</i> < 59.5	F

13 Important Semester Deadlines:

Summer 2024: 8-week classes (Full term)

- Monday, June 3rd: First day of class, classes available in Canvas.
- Friday, June 7th: Last day to add a class or to change credit hours or grade mode in LoboWEB.
- Friday, June 14th: Last day to drop without ``W" grade and with 100\% refund on LoboWEB.
- **Friday, July 19th:** Last day to drop without Dean's permission on LoboWEB. Will receive ``W'' grade and will be responsible for tuition for the course.
- Thursday, July 25th: Last day to change grade mode with form, or drop with Dean's permission. Will receive ``W" grade and will be responsible for tuition for the course.

14 UNM Valencia Resources & Support:

14.1 Support:

<u>PASOS Resource Center</u> (505) 925-8546, <u>mailto:pasos@unm.edu</u>. The Resource Center is an on-campus center that serves as a "one-stop" for all non-academic needs of UNM-Valencia students.

<u>Student Health and Counseling</u> (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; <u>OR</u> If you recently tested positive and may need oral treatment, call SHAC.

<u>LoboRESPECT Advocacy Center</u> (505) 277-2911 can offer help with contacting faculty and managing challenges that impact your UNM experience.

14.2 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 opportunity to participate. To engage in a confidential conversation about the process for requesting reasonable accommodations for this class and/or program, please contact Accessibility Resource Center at arcsrvs@unm.edu or by phone at 505-277-3506. The UNM-Valencia Equal Access Services (Sarah Clawson, Coordinator), at (505) 925-8840 or by email at siclawson@unm.edu.

<u>Support:</u> Contact me in student hours, or at my email, and contact The <u>UNM-Valencia Equal Access</u> <u>Services</u> (Sarah Clawson, Coordinator), at (505) 925-8840 or by email at <u>siclawson@unm.edu</u>., Or <u>Accessibility Resource Center</u> (https://arc.unm.edu/) at <u>mailto:arcsrvs@unm.edu</u> (505) 277-3506.

14.3 Tutoring:

Resources to support study skill and time management are available through UNM-Valencia Learning Commons (Tutoring).

Tutoring is available to you in math, science, writing, and other subjects through the Learning Commons: Learning and STEM Centers and Writing Center. In person tutoring is in these centers in the LRC (the building that also has the library). Tutoring in Zoom and, for writing, through email, is also available.

Making use of tutoring is a fantastic way to use your resources and set yourself up to learn deeply and well in your courses.

To schedule an appointment, please go to: <u>Learning Commons Bookings</u>

If you are making an email appointment with the Writing Center, email your draft to tutor@unm.edu after you fill out the form above.

If you have difficulty with the scheduling link above, would like an appointment in a subject not listed at that link, or have a question, email tutor@unm.edu. You'll get answers during business hours Monday through Friday.

The webpage, with more details about available hours, is here: <u>Learning Commons: Tutoring Services</u> webpage.

At UNM Main Campus, you may contact: <u>Center for Academic Program Support</u> (CAPS). Many students have found that time management workshops can help them meet their goals (consult (<u>CAPS</u>) website under "services").

Support: Many students have found that time management workshops or work with peer tutors can help them meet their goals. These and are other resources are available through <u>PASOS</u> (Pathways to Articulation and Sustainable Opportunities for Students), <u>TRIO Student Support Services</u>, and <u>Student Learning Support</u> at the Center for Teaching and Learning.

Connecting to Campus and Finding Support: UNM has many resources and centers to help you thrive, including opportunities to get involved, mental health resources, academic support including tutoring, resource centers for people like you, free food at Valencia Campus Food Pantry, and jobs on campus. Your advisor, staff at the resource centers and Academic Affairs Office, and I can help you find the right opportunities for you.

15 UNM Statements & Policies:

15.1 Land Acknowledgement:

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.

15.2 Citizenship and/or Immigration Status:

All students are welcome in this class regardless of citizenship, residency, or immigration status. Your professor will respect your privacy if you choose to disclose your status. As for all students in the class, family emergency-related absences are normally excused with reasonable notice to the professor, as noted in the attendance guidelines above. UNM as an institution has made a core commitment to the success of all our students, including members of our undocumented community. The Administration's welcome is found on our website: http://undocumented.unm.edu/.

COVID-19 Health and Awareness. UNM is a mask friendly, but not a mask required, community. If you are experiencing COVID-19 symptoms, please do not come to class. If you do need to stay home, please communicate with me at []; I can work with you to provide alternatives for course participation and completion. 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.

15.3 Credit-hour statement:

This is a three credit-hour course. Class meets for two 75-minute sessions of direct instruction for fifteen weeks during the Fall 2023 semester.

15.4 Title IX:

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.

Support: <u>LoboRESPECT Advocacy Center</u>, the <u>Women's Resource Center</u>, and the <u>LGBTQ Resource</u> Center all offer confidential services.

15.5 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 Als can be incorrect or misleading. Learning the course material depends on completing and submitting 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).

15.6 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.

16 Recommended Textbook Practice Problems by Section

- 1.1 Functions 1,2,3,4,5,7,16,17,19,23,31,37,43,49,53,55,59,63,67,83,85,87,91,93,99,101
- 1.2 Graphs of Functions 1,2,4,5,7,8,10,11,17,19,21,25,27
- 1.3 Properties of Functions 1,2,3,4,5,6,7,8,9,11,17,21,23,25,33,39,43,47,49,65,71,73,83
- 1.4 Library of Functions 1,2,3,4,6,7,8,9,10,11-18,19,21,23,27,29,31,33,35,37,51
- 1.5 Transformations 1,2,4,5,11-14,19,21,23,25,27,29,31,33,39,43,51,53,56,63,77,81
- 2.1 Linear Functions 1,2,3,4,5,8,9,10,15,17,25,35,37,39,43,53
- 2.3 Zeros of Quadratic Functions 1,2,3,4,5,6,10,13,19,29,33,43,55
- 2.4 Properties of Quadratic Functions 1,2,3,4,8,10,11,12,13-20,23,27,33,39,55,71,75,85,89
- 2.6 Quadratic Models 1,3,7,9,11,19
- 2.8 Absolute Value 1,3,4,5,6,7,8,10,11,12,13,19,31,33,47,51,53,57,67
- 3.1 Polynomials 1,2,3,5,6,8,9,11,12,13,15,16,17,21,27,43,57,81,83,89,93,97
- 3.4 Rational Functions 1,3,4,6,7,9,10,15,17,19,25,27,33,35,41,45,47,49
- 3.5 Graphing Rational Functions 1,2,3,4,7,9,11,13,15,17,19,31
- 4.1 Compositions 1,2,3,6,9,11,13,15,27,29,33,35,37,49,59
- 4.2 Inverses 1,2,3,4,5,6,7,8,9,10,11,12,13,17,21,23,31,35,45,53,57,61,65,67,71,81,83,85,97
- 4.3 Exponential Functions 1,2,3,4,5,7,10,11,13,35-42,44,49,51,55,59,73,75,79,95,107,111
- 4.4 Logarithms 1,2,3,4,5,9,10,11,17,19,25,27,29,37,39,43,45,65-79, 85, 91-95,101,103, 111
- 4.5 Properties of Logarithms 1,2,3,4,5,6,8,9,10,11,12,15,17,19,21,29,37,39,43,51,55,57,61
- 4.6 Logarithmic and Exponential Equations 1,7,9,11,13,17,19,21,41,43,49,57,61,105,107
- 4.7 Financial Models 1,2,3,5,7,13,15,23,27,31,35,41
- 4.8 Exponential Growth and Decay 1,3,9,11,21
- 6.1 Systems of Linear Equations 1,2,3,4,5,6,7,11,19,21,23,27,31,35,37,57,61,63