

College Algebra Math 121 Online

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Instructor Information

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Office Hours

In office: T and W 1PM-2PM
Online: TR 1PM to 2PM
Or by appointment

1 Overview

Welcome to Math 121. Here is the UNM course description.

Preparation for MATH 150 and 180. 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. Meets New Mexico Lower-Division General Education Common Core Curriculum Area II: Mathematics (NMCCN 1113). (I)

Prerequisite: (101 and 102 and 103) or (118 and 119) or 120 or ACT Math \Rightarrow 22 or SAT Math Section \Rightarrow 540 or ACCUPLACER Elementary Algebra =104-120 or ACCUPLACER College-Level Math =37-68.

2 Course Learning Outcomes

Here is a list of student learning outcomes for this course.

1. Understand the concept of a function
 - (a) Apply the definition of a function.
 - (b) Identify domain and range. Interpret in context when appropriate.
 - (c) Use function notation to evaluate functions.
2. Build New Functions from Existing Functions
 - (a) Use graphing transformations
 - (b) Use function arithmetic
 - (c) Find inverse functions
3. Build and Analyze Graphs
 - (a) Understand the relationship between a function's equation, table and graph.
 - (b) Identify or sketch the following key features of a graph: intercepts; intervals where the function is increasing, decreasing, positive, or negative; relative maximums and minimums; symmetries; slope; vertex; and end behavior.
 - (c) Create graphs using key features

- (d) Write the equation of a function or circle given its graph based on the key features shown. (reverse of above outcome)
 - (e) Interpret key features of functions in context.
4. Apply Algebraic Techniques
- (a) Evaluate numeric expressions in exact form and find decimal approximations for irrational numbers.
 - (b) Solve equations and inequalities
 - (c) Simplify algebraic expressions to analyze functions and graphs.

3 Required Materials

The required text for this course is:

- College Algebra by Sullivan, 10th ed.

We will be using MyMathLab (MML), so you will need a MML access code. The course id is **smith48578**. The MML course will grant you access to an electronic copy of the textbook, so it is possible to get by with only the MML code. However, students often prefer to read from a physical copy of the book.

- If you have taken a math class before that used MyMathLab you can log in first then register for a new course. If this is your first time using MyMathLab select to register as a student. Follow the prompts to register for our course. **Use your official UNM email to register for MyMathLab.**
- The MyMathLab code for my course is **smith48578**.
- If you are waiting on financial aid money, you can use the 14 day temporary access to register. Just be sure to complete payment by the end of the 14 days
- Once you are registered, complete the Chapter R test. This is not for a grade, but is to review and get you familiar with the features of MML.

We will be using Blackboard Learn for this class. Here's the link to access it.

<https://learn.unm.edu/>

Here's another link with some help getting started.

<http://online.unm.edu/help/learn/students/>

Here is a list of other materials needed for the class.

- A computer with a working internet connection. Some good browsers to use are Google Chrome, Firefox, and Safari. All these browsers are compatible with the mobile version of Blackboard, in case you are logging in from a cell phone or tablet.
- Access to a scanner. There is a scanner at the UNM-Valencia local library. There are also mobile apps capable of scanning with the camera on a cell phone. I personally use "TinyScanner" on Android.
- Skype for Business. We will be using this for online office hours, if you want to chat or video chat and can't make it for face to face office hours. I can use my webcam to share notes with you during our video chat. In the introductory video on Blackboard, I show you how to download Skype for Business on your computer. In Section 5 of the syllabus, you will read that I award participation points for attending online office hours.
- Adobe Reader on your machine.

*Note. All communication is to be made through course messages on Blackboard Learn or by email with your official UNM email account. I will not respond to email from non-university email accounts such as Google or Yahoo.

4 Attendance Policy

Although this course online, I require regular logins and participation on blackboard. I will be checking how often students are logging on and deducting participation points for less than three logins per week. **If you have not logged in within four days of the start of the course, you will be dropped from the course.**

5 Course Structure

We will cover the SLO's by doing various readings and assignments, both written and through MyMathLab. My course id is **smith48578**. The work will be broken up into 11 Units. The Units will be comprised of the following various types of assignments and readings. The due dates will not always be the same for every unit so be sure to check the deadlines.

- MyMathLab computational assignments and quizzes (200 points)
 - Each Unit will have a homework assignment based on the readings. You must score a 60% on this assignment to access the Unit quiz. You can always work on homework past the deadline for a higher score.
 - You can always check your average on MML, but keep in mind that it won't take missing assignments into account until the the of the semester.
 - You will always be allowed to improve your scores on the homework assignments, but **quiz deadlines are fixed**.
 - You will be allowed three attempts for each quiz. I will drop the lowest quiz score and I will allow 4 quizzes to be submitted late.
- Guided notes (100 points)
 - Each unit requires you to fill out a set of guided notes. These are to be done by hand. You must scan your work and submit them on Blackboard.
- Midterm (100 points)
 - This will be a handwritten midterm that must be taken in person with a proctor. You must take the midterm between June 26 and July 1. I will be available to proctor at UNM-Valencia on June 28 and July 1 from 1PM to 5PM. If you can not make it during that time, you must find a proctor at a college, university or local library near you. There will be more information about this on Blackboard. *Warning: UNM-Main requires **at least two weeks notice** to have an exam proctored, so if you want to take it there you will need to schedule in advance.
- Final Exam (150 points)
 - The final exam will be comprehensive and follow the same proctoring rules as the midterm exam (see above). I will be available to proctor July 26 and July 29 from 1PM to 5PM at UNM-Valencia. *Note: UNM main will **not be available** for proctoring the final exam.
- Total (550 points)

To be successful in this course, you must dedicate at least 12 hours per week to the course. In addition, you should have regularly schedules times to work on this class.

6 Grading Policy

Your grades will be calculated as follows.

<u>Point Total</u>	<u>Grade</u>
[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

To calculate your current grade at any time, simply add up all your points so far and divide by all points possible so far.

*Note: The symbol $[a, b)$ means numbers bigger than *or equal to* a and *strictly less than* b . For example, a score of 538.5 would be an A, but 539 would be an A+.

7 Make-up Policy

I will allow up to four late submissions of Unit quizzes. This should be enough to cover any unforeseen circumstances. I will allow make-ups for the midterm and final for bereavement and medical reasons with proper documentation.

8 Support

Here are some options for support. They will also be posted on Blackboard Learn.

- **Email me!** You can always email me for anything. During the week, I will respond within 24 hours. During the weekend, I may not respond until the following Monday. Remember to use your official UNM email account to email me.
- **Office Hours:** You can always get help with me during office hours, either online or in person. If you can not make my scheduled office hours, you can make an appointment with me.
- **Tutoring:** We offer mathematics tutoring at the Learning Center and STEM Center at UNM-Valencia.
- **Online resources:** You can also use online resources such as Khan Academy and YouTube.
- **On each MML Homework,** every question will have an “Ask My Instructor” button in the corner. If you are stuck with homework, use that button and MML will send me an email that I can respond to and help you.

9 Schedule and Important Dates

Here is a preliminary schedule for the course.

	Dates	Sections Covered in Book
Unit 1	6/6-6/10	R.3, 1.1, 1.5, 1.7
Unit 2	6/11-6/14	R.5, 2.3, 8.1
Unit 3	6/14-6/17	R.2, R.3, 1.2, 2.1, 2.4
Unit 4	6/18-6/21	2.2, 3.1, 3.2, 3.3
Unit 5	6/21-6/24	3.3, 3.4, 3.5
Unit 6	7/2-7/5	3.1, 6.1, 6.2
Unit 7	7/6-7/8	6.3, 6.4, 6.5
Unit 8	7/9-7/12	6.6, 6.7, 6.8
Unit 9	7/12-7/15	R.8, 1.4, 4.3
Unit 10	7/16-7/19	R.4, R.7, 5.2
Unit 11	7/19-7/22	5.1
Final Exam	7/25-7/29	N/A

Here are some important dates for the semester.

Date	Event
6/14	Last day to DROP without "W" grade and 100% tuition refund on LoboWeb.
7/1	Last day to take the midterm.
7/4-7/5	Independence Day
7/12	Last day to DROP without Dean's Permission on LoboWeb.
7/26	Last day to DROP with Dean's Permission with form.
7/29	Last day to take the final exam.

<http://registrar.unm.edu/semester-deadline-dates/summer-2019.html>

10 A note on academic integrity

We will follow the university policy on academic integrity listed below.

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.

11 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.

12 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 - <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>.

13 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/>.

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