

# A Survey of Mathematics

## Math 129

### Online

Mychael Smith, PhD

#### Instructor Information

Academics 142-A  
(505) 925-8644  
mysmith@unm.edu

#### Office Hours

TW 9:00AM to 12:00PM  
In STEM: W 12:00PM to 1:00PM  
Or by appointment

## 1 Overview

Welcome to Math 129. Here is the UNM course description.

An introduction to some of the great ideas of mathematics, including logic, systems of numbers, sequences and series, geometry and probability. Emphasizes general problem-solving skills. Meets New Mexico Lower-Division General Education Common Core Curriculum Area II: Mathematics. (I)

Prerequisite: (101 and 102) or (118 and 119) or 120 or 121 or 123 or 150 or 162 or 163 or 180 or 181 or 264 or ACT Math  $\geq 22$  or SAT Math Section  $\geq 540$  or ACCUPLACER Elementary Algebra  $\geq 66-103$  or ACCUPLACER College-Level Math  $\geq 37-68$ .

## 2 Course Learning Outcomes

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

1. Construct and analyze graphs and/or data sets.
  - (a) Gather and organize information.
  - (b) Understand the purpose and use of various graphical representations such as tables, line graphs, tilings, networks, bar graphs, etc.
  - (c) Interpret results through graphs, lists, tables, sequences, etc.
  - (d) Draw conclusions from data or various graphical representations.
2. Use and solve various kinds of equations.
  - (a) Understand the purpose of and use appropriate formulas within a mathematical application.
  - (b) Solve equations within a mathematical application.
  - (c) Check answers to problems and determine the reasonableness of results.
3. Understand and write mathematical explanations using appropriate definitions and symbols.
  - (a) Translate mathematical information into symbolic form.
  - (b) Define mathematical concepts in the student's own words.
  - (c) Use basic mathematical skills to solve problems.
4. Demonstrate problem solving skills within the context of mathematical applications.

- (a) Show an understanding of a mathematical application both orally and in writing.
- (b) Choose an effective strategy to solve a problem.
- (c) Gather and organize relevant information for a given application.

We will cover all of these student learning objectives (SLO's) by covering various chapters of our textbook. The topics will be broken up into course units.

### 3 Required Materials

The required text for this course is:

- Mathematics All Around by Pirnot, 6th Edition with MyMathLab (MML) code.

You must have a MML code for this course. 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 smith91636.
- 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 0 Orientation Homework Assignment and Unit 0 Review Homework. These are Part of Unit 0 and serve as orientation and review to 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.**

In addition, there is a **course agreement** that must be signed and returned by January 20. **If you do not submit the course agreement by January 20, you may be dropped from the class.**

## 5 Course Structure

We will cover the SLO's by doing various readings and assignments, both written and through MyMathLab. My course id is smith91636. The work will be broken up into 12 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 Homework (50 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.
  - To get your Homework total, divide your MML homework average by 2. For example, if your homework average is 82%, you have earned  $\frac{82}{2} = 41$  homework points.
- MyMathLab Quizzes (100 points)
  - Each Unit will have a quiz. They will count for 10 points each based on your score. I will drop the lowest two quiz scores at the end of the semester.
  - Your Quiz Total will be your Quiz average after dropping the two lowest scores. Quiz deadlines are fixed. To improve your score after the deadline you must use one of your two extensions.
- Participation (50 points)
  - You will earn participation points by doing discussion questions, logging in regularly, and emailing me with questions or going to office hours (online or in-person).
  - There will be 10 discussion questions worth 5 points each for a total of 50 points. I will deduct participation points for failing to login regularly. Conversely, I will give extra participation points for participating in office hours (online or in person) and emailing me with questions. I will allow up to a total of 75 participation points out of 50, meaning you can get up to 25 extra credit points through participation.
- Unit Activities (50 points)
  - These activities are meant to supplement the readings and MML homework.
  - There will be a total of 6 activities worth 10 points each, with the lowest score dropped.
- Term Papers (2 term papers for 50 points each)
  - There will be two term papers. These will be longer assignments that you will have an extended period of time to do research and work on.
- Midterm (50 points)
  - This will be a handwritten midterm that must be taken in person with a proctor. The midterm will be available in the UNM-Valencia testing center. If you can not make it to our testing center, 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).
- 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.

Point Total	Grade
[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 two 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 0	1/14-1/20	Appendix A
Unit 1	1/21-1/27	5.1-5.3
Unit 2	1/28-2/3	5.4,6.1-6.2
Unit 3	2/4-2/10	6.3-6.5
Unit 4	2/11-2/17	6.6,1.1-1.2
Unit 5	2/18-2/24	8.1-8.3
Unit 6	2/25-3/3	8.4-8.5
Midterm	3/4-3/10	N/A
Spring Break	3/11-3/17	N/A
Unit 7	3/18-3/24	2.1-2.4
Unit 8	3/25-3/31	3.1-3.3
Unit 9	4/1-4/7	3.4-3.6
Unit 10	4/8-4/14	4.1-4.3
Unit 11	4/15-4/21	All of Chapter 9
Unit 12	4/22-4/28	All of Chapter 14
Final Week of Class	4/29-5/5	Review
Final Exam	5/6-5/11	N/A

Here is a list of assignments and due dates.

	MML Assignments Due	Other Assignments Due
Unit 0	Unit 0 Review HW, Chapter 0 HW	Course Agreement, Introduction Discussion
Unit 1	Unit 1 HW, Unit 1 Quiz	Unit 1 Discussion, Unit 1 Activity
Unit 2	Unit 2 HW, Unit 2 Quiz	Unit 2 Discussion, Unit 2 Activity
Unit 3	Unit 3 HW, Unit 3 Quiz	Unit 3 Discussion, Unit 3 Activity
Unit 4	Unit 4 HW, Unit 4 Quiz	Term Paper 1
Unit 5	Unit 5 HW, Unit 5 Quiz	Unit 5 Discussion
Unit 6	Unit 6 HW, Unit 6 Quiz	Unit 6 Discussion, Unit 6 Activity
Unit 7	Unit 7 HW, Unit 7 Quiz	Unit 7 Discussion, Midterm
Unit 8	Unit 8 HW, Unit 8 Quiz	Unit 8 Discussion, Unit 8 Activity
Unit 9	Unit 9 HW, Unit 9 Quiz	Unit 9 Discussion
Unit 10	Unit 10 HW, Unit 10 Quiz	Unit 10 Discussion, Unit 10 Activity
Unit 11	Unit 11 HW, Unit 11 Quiz	Term Paper 2
Unit 12	Unit 12 HW, Unit 12 Quiz	Unit 12 Discussion
Final Week of Class		
Final Exam	Final Exam	

Here are some important dates for the semester.

Date	Event
1/21	Martin Luther King Jr Day
1/25	Last day to add or change credit hours or change grade mode on Loboweb
4/12	Last day to drop without Dean's permission
5/3	Last day to drop with Dean's permission

## 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](http://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.