

Course Title: **A Survey of Mathematics**

Course Number: **Math 1130**

Instructor: **Dr. Randall Shaffer**

Office and office hours: **Sundays, 0900 – 1000 MST online via Zoom**

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Course Overview

An introduction to some of the great ideas of mathematics, including logic, systems of numbers, sequences and series, geometry, and probability and statistics. Emphasizes general problem-solving skills.

Course Learning Outcomes

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.

Required Materials

- *Mathematics All Around*, Thomas Pirnot. This eBook is included and available in Blackboard Learn.
- Pearson MyLab Math. This module is included and available in Blackboard Learn.
- Internet connection with Chrome, Firefox, or Safari. These browsers are compatible with the mobile version of Blackboard.
- Adobe Reader

Course Schedule

Unit	Dates
0	-
1	JUN 01 – JUN 04
2	JUN 05 – JUN 08
3	JUN 09 – JUN 12
4	JUN 13 – JUN 16
5	JUN 17 – JUN 20
6	JUN 21 – JUN 24
Midterm Exam	JUN 21 – JUN 27
7	JUN 25 – JUN 28
8	JUN 29 – JUL 02
9	JUL 03 – JUL 06
10	JUL 07 – JUL 10
11	JUL 11 – JUL 14
12	JUL 15 – JUL 18
13	JUL 19 – JUL 22
Final Exam	JUL 19 – JUL 25

Grading Policy

Final grades are assigned per the following percentages:

Discussion Participation	5%
MyMathLab Problem Sets	20%
MyMathLab Quizzes	25%
Midterm	25%
Final Exam	25%

W-grade

Withdrawing from the course after the census date results in a grade of W. A student that drops the course before 5:00 PM MDT on the census date is eligible for a 100% refund.

Student Support

Please take full advantage of the following resources:

- **Course Messages.** I always check course messages first. Please send your questions to me via course messages for the quickest response.
- **E-mail.** Please email your questions to me at shafferr@umn.edu.
- **Office hour.** I will be available online on Sunday mornings from 9 AM – 10 AM MST via Zoom. Please note that New Mexico is on MDT, which is currently one hour ahead of MST.
- **Tutoring.** Mathematics tutoring is offered at the Learning and STEM Centers at UNM-Valencia.

- **View an Example.** Each question in the problem sets has a *View an Example* link under the Question Help button to see a solved example problem. This resource is the fastest way to get help on a problem set.
- **Ask my Instructor.** Each question in the problem sets has an *Ask My Instructor* link under the Question Help button to send an email to the instructor about the question.

Instructor Response Time

I check email and course messages in the early morning and early evening every day. Late-evening inquiries will receive a response early the next morning and late-morning inquiries will receive a response in the early evening.

Academic Integrity

Please see the university policy on academic integrity at <https://policy.unm.edu/regents-policies/section-4/4-8.html>.

Equal Access Services

Students with disabilities may contact Equal Access Services at their respective campuses for documentation that allows for specific accommodations.

Title IX

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 at <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, please see <https://policy.unm.edu/university-policies/2000/2740.html>.