

MATH 100: Introduction to Algebra

Instructor

Dr. Ariel Ramirez

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Office: LRC 172

Class Details

Tuesday/Thursday

Class Time: 1:30-3:10pm

Room: Valencia Business & Technology 119

Office Hours

M/W 1-2:15pm (Math Center)

T/Th 10-11:15am (Math Center)



"Laboratory Still Life 02" - Don Shank

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Course Description

This is a pre-college mathematics course. Topics covered include linear equations, polynomials, factoring, formulas, graphing, and applications problems and include a skills laboratory (4 Credit Hours).

Prerequisites/placement: Successful completion of MATH 099 or minimum ACCUPLACER score of 57-101 (Arithmetic), or math ACT score of 16. Co-requisite: MATH 193: Critical Thinking for Math.



Course Outcomes

- Add, subtract, multiply, and divide positive and negative numbers, including integers, fractions, and decimals.
- Use the correct order of operations when simplifying numerical expressions.
- Solve linear equations in one variable.
- Solve word problems involving linear equations in one variable.
- Graph simple linear equations.
- Calculate the slope of a line between two points
- Find the equation of a line from a pair of points or a point and a slope.
- Simplify expressions with integer exponents.
- Use scientific notation in elementary arithmetic calculations.
- Add, subtract, multiply, and divide polynomials.
- Factor simple polynomials.

Instructional Methodology

A variety of approaches will be used including: discussion of concepts, problem solving, and group work. The primary role of the professor will be to facilitate the analysis of key concepts and illustrate multiple problem solving heuristics.



Classroom Policies

Attendance / Notes / Participation

You are expected to be on time to each class and stay the entire class, have the necessary course materials on hand, and participate in the group activities.

If you know ahead of time you will miss a class, send me an email indicating the date of the absence.

Arrange before the next class meeting to get notes from a classmate. The student bears full responsibility for the material and information covered in class.

Each student starts with 10 attendance points. Attendance is taken at the **beginning** of class. One attendance point is deducted for each unexcused absence; One-half attendance point for tardiness.

Homework

Homework is assigned nearly every week on Thursdays. Assignments in MyMathLab must be completed not later than beginning of class of the next week for full credit. A 10% penalty will be incurred if your homework is late.

Math Center Worksheets

Worksheets done nearly every week in the Math Center, located in the Learning Commons, will be due no later than the date printed on first page of the worksheet. These worksheets will help you practice procedural skills and reinforce concepts covered in class.

Worksheets will be available in the Math Center from opening Monday morning until closing Friday, and must be completed, checked and signed by a tutor, and turned in at the Math Center.



abcgallery.com - Internet's biggest art collection

"Gorge Improvisation" - Kandinsky 1914

Exams/Final Exam

A couple of exams will be given during the semester. Students are expected to clearly show their work. All of the tests (including the final exam) will be a paper/pencil test where students are expected to show all work to get full credit. An instructor pre-approved 3" X 5" note card (both sides) will be allowed to be used on tests.

You can make corrections to tests (*except on the final exam*) to improve your grade only if the practice test worksheet is **completed and turned in** before the test is taken. To earn back up to half the points missed, corrections need to be made on a separate sheet of paper. The correction paper is vertically divided in half: The problem must be reworked on the LEFT side of the paper, and the RIGHT side must contain your verbal explanation of what was done incorrectly on the exam for that problem.

The final exam is cumulative and will be given during the last week of the semester. **You must pass the final with 70% or higher to pass the course.**

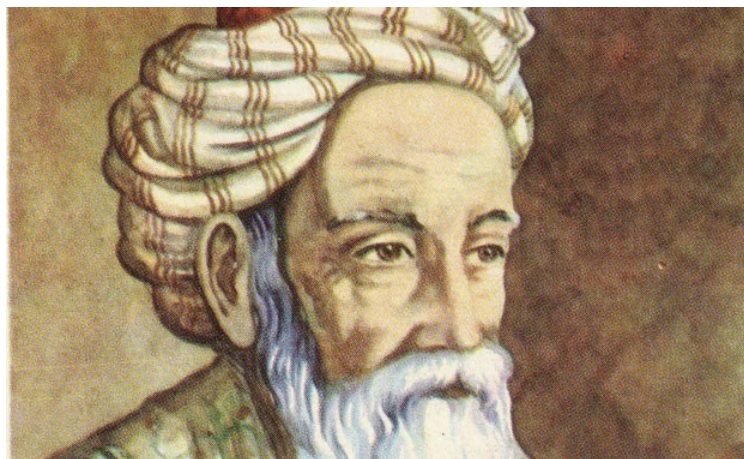
Classroom Policies (cont'd)

Grading Distribution & Scale

Attendance	10%
Homework & Binder	20%
Math Center Worksheet	20%
Tests	20%
Cumulative Final	30%

GRADING SCALE: While you will receive credit toward establishing a full-time load for financial aid purposes for Math 100, this course is NOT accepted to satisfy UNM core degree requirements. Students in this course will receive the following grades:

RA	90 – 100%
RB	80 – 89%
RC	72 - 79%
RCR	72 – 100%
RNC	< 72%



Omar Khayyam 1048-1131

Khayyam was an astronomer, astrologer, physician, philosopher, and mathematician. In 1070, he published *Treatise on Demonstration of Problems of Algebra and Balancing*. In it he showed that a cubic equation can have more than one solution. He also showed how the intersections of conic sections such as parabolas and circles can be utilized to yield geometric solutions of cubic equations.

www.famousscientists.org/omar-khayyam/.

Course Materials

MyMathLab (MML) Student Access Code: This code is available for purchase in the UNM-VC Bookstore or online at <http://www.mymathlab.com>

You must purchase the student access code for MyMathLab by the beginning of the 3rd week of classes or risk being dropped from the course. (You can use a temporary access code for 21 days given to you by MyMathLab, but will then have to purchase a code.)

Textbook: Introduction to Algebra (Math100) Workbook: This is available for purchase in the bookstore.

Organization: 3-Ring binder (1-1/2 inch), 4 divider tabs (notes, worksheets, homework, and exams), notebook paper, pencil, eraser, 3X5 note cards, scientific calculator (NOT a graphing calculator).

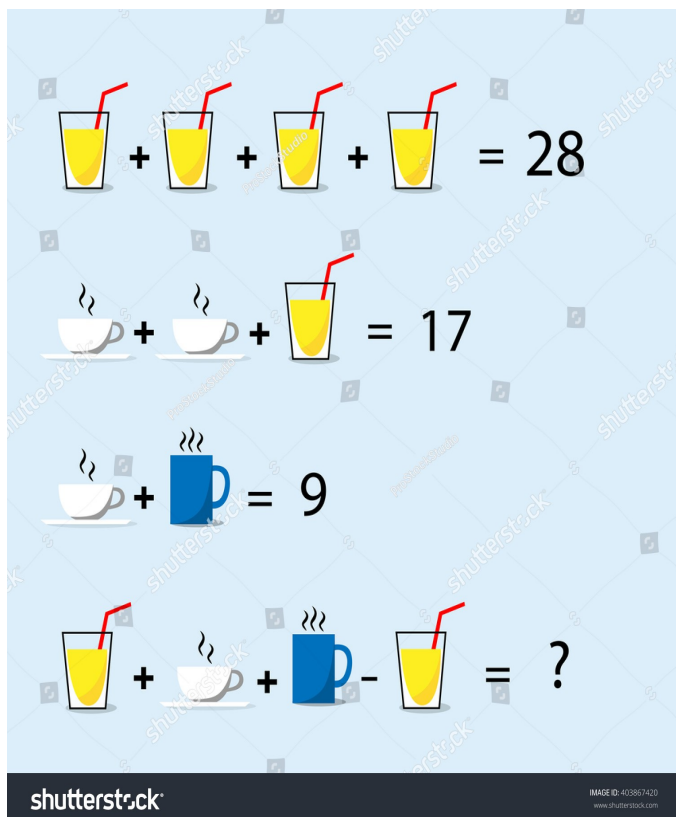
Student Resources

The Learning Commons tutors are available Monday through Thursday from 8am to 6pm, and Fridays from 8am to 1pm. There are also open computer labs on campus for student use. The Valencia Campus Library provides a quiet atmosphere for study and is an excellent resource for supplementary materials. **I will also be available in the Math Center during my office hours for help.**

University Policies

Classroom Expectations

Students are expected to conduct themselves in a polite, courteous, professional and collegial manner. Cell phones must be set on silent and be out of sight during class. The instructor reserves the right to further limit use if, in his/her opinion it is interfering with the orderly functioning of the class. No food or drink is allowed in the computer labs.



Disability Statement

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. The Equal Access Office can be reached at 925-8510.

UNM's Policy on Academic Honesty

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, including dismissal, against any student who is found responsible for academic dishonesty. Any student who has been 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 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; and misrepresenting academic or professional qualifications within or outside the University.

Title IX Reporting Obligations

In an effort to meet obligations under Title IX, UNM faculty, Teaching Assistants, and Graduate Assistants are considered responsible employees. This designation requires that any report made to a faculty member, TA, or GA regarding sexual misconduct or gender discrimination must be reported to the Office of Equal Opportunity and the Title IX Coordinator. For more information on the campus policy regarding sexual misconduct, see: <https://policy.unm.edu/universitypolicies/2000/2740.html>

Important Dates

Last day to add or change grading mode on LOBOWeb:
 Last date to drop without a grade:
 Spring Break:
 Last date to drop without Dean's Permission:
 Last date to change grading mode with form
 Last date to drop with Dean's permission
 Finals

Friday, January 26, 2018
 Friday, February 2, 2018
 March 12-16, 2018
 Friday, April 13, 2018
 Friday, May 4, 2018
 Friday, May 4, 2018
 Week of May 7th, 2018