

Math 101/102/103, Intermediate Algebra
Section 550 **Spring 2017**
Syllabus

Instructor of Record: Elaine W. Clark
Office: Academic Bldg. Room 142C

(High School Teacher: Bonnie Dodge)

Office Hours:

I will be on campus (UNM-Valencia) most days, Monday through Thursday, from 10:00 AM to 4:00 or 5:30 PM. I will post my actual schedule each week in Learn. I can be available on Skype, BlueJeans, or in person for appointments.

Phone: 925-8618 (my office, yes I have voice mail), 925-8600 (Academic office)

email: ewclark@unm.edu or send a message in UNMLearn. I will check email Monday through Thursday afternoon unless I am out of town, and *usually* on Fridays. If you send a message over the weekend (Friday through Sunday), I will likely not see it until Monday morning.

Course Prerequisites: Appropriate placement score or C or better in Math 100 for Math 101. Must have a passing grade in Math 101 to continue on to Math 102. Must have a passing grade in Math 102 to continue on to Math 103.

Course Overview

This course provides preparation for MATH 121, 129 and STAT 145. Emphasis is on problem solving skills. Though this course is acceptable as credit toward graduation, and provides a math requirement for many Associate Degrees and Certificates, it does not satisfy UNM core or group requirements.

- **Math 101** includes equations and inequalities, applications and problem solving with linear equations, linear functions and the graph of a line, percent, perimeters, and areas of simple geometric shapes.
- **Math 102** includes quadratic equations, properties of exponents and scientific notation, simplifying polynomial expressions, factoring and introduction to functions. (Prerequisite for MATH 129 and STAT 145)
- **Math 103** includes radical expressions and equations, rational expressions and equations, the exponential and logarithm functions. (Prerequisite for MATH 121)

Student Learning Outcomes

Upon successful completion of the course:

1. **Communication:** Students will use proper mathematical notation and terminology to communicate mathematical phrases.
2. **Solve various kinds of equations:** Students will solve a variety of equations from systems of two linear equations, to polynomial, rational and quadratic.
3. **Working with functions:** Students will correctly use function notation and be able to find the value of a function for a given domain.
4. **Working with graphs:** Students will sketch graphs of linear, quadratic and exponential functions.

5. Modeling and solving real-world problems: Students will use formulas and equations to solve real-world problems.

Text and Tools - Required

There is not a textbook associated with this course. All text-type materials are embedded in the ALEKS program, <https://www.aleks.com/> You will need high-speed Internet access and the ability to upload free software.

- You will need to register for our course at <http://www.aleks.com> . **If you have not already done so, you must register for ALEKS by the beginning of the 2nd week of classes or risk being dropped from the course.**
Math 101 course code: CLL3R-FMNYT
Math 102 course code: MNDV6-WMFMY
Math 103 course code: 4PXVM-KEYD6
- You will need an ALEKS account. If you have used ALEKS before you can use the same account you created the first time you used it.
- You will need a Student Access Code. Your school should be providing this.

Once you register, make sure you have all the appropriate software installed on your computer. There may be a plug-in you will need to install for the program to work properly with your web browser.

Other requirements:

- You will need access to UNM Learn. This is another program I will use to communicate with you about your progress in the course and to post announcements. You will use your UNM NetID to log into Learn. You may access it directly via <http://learn.unm.edu>
- You may use a *scientific* calculator for this course unless it is otherwise announced. **Cell phone calculators or sharing calculators will *not* be allowed on exams.**
- Also, it is best for you to keep a notebook for this course. You can use a bound notebook or a binder with filler paper, but you want to be able to organize the notebook so you can easily find your notes for each section. Please do not use this notebook for any other course.

Grading Scale for each course. Grades for Math 102 are independent of any Math 101 scores and similarly the grade for Math 103 is independent of any scores from Math 101 or 102. (Note: + and – are possible.)

A	90 – 100%
B	80 – 89%
CR	70–79%
NC	<70%

Your grade for each course will be a weighted average of your scores in the following categories:

Attendance and Weekly Progress in ALEKS	30%
In-Class Activities and Projects	20%
Cumulative Final Exam	50%

- Students must receive at least an 80% on the Math 101 final, *and* must have a course grade of C or better to receive a passing grade.
- Students must receive at least a 75% on the Math 102 final, *and* must have a course grade of C or better to receive a passing grade.
- Students must receive at least a 70% on the Math 103 final, *and* must have a course grade of C or better to receive a passing grade.

The final Exam for each course may be re-taken only once, if needed, within the announced due date for final exam. Not scoring high enough on the final exam will result in a NC grade for the course.

Important Dates for Spring 2017:

- Monday, January 16 Martin Luther King Jr. Holiday observed
- Friday, January 27 Last day to add a course or change sections
- Friday, January 27 Last day to change grading option (via LoboWeb)
- Friday, February 3 **If you are registered in Math 101, you should have completed that course in order to have time to complete Math 102 and Math 103 by May. If you are registered in Math 102, you should be at least 50% finished with your ALEKS pie if plan to also complete Math 103.**
- Friday, February 3 Last day to drop without a grade (100% Refund)
- Monday-Friday, March 13-17 UNM Spring Break – no classes
- Monday, March 20 **If you are registered in Math 102, you should have completed that course in order to have time to complete Math 103 by May.**
- Friday, April 14 Last day to drop the course without Dean's permission
- Friday, May 5 Last day to drop the course with the Dean's permission
- Friday, May 5 You should be all done with your ALEKS pie

Activities, Projects, and Finals: This course is computer-based and mastery-based, but it is not self-paced. Students will be required to make sufficient progress each week or risk being dropped from the course. Please seek help from your instructor as needed.

- Computational work will be done in ALEKS. Practice problems need to be worked in an orderly fashion in a single notebook. Make sure you label your work appropriately in your notebook, so you can find it later.
- I will provide your instructor with some pencil-and-paper activities and projects for you to complete, especially when you have class but do not have a computer to use for your ALEKS work. You will need to complete a major portion of these pencil-and-paper activities as part of your grade – more information to come.
- A calculator and a 3x5 card will be allowed for the final exam, and you will be required

to complete practice problems before you take the final exam.

Attendance: Attendance means that when you are on the computers you are working on ALEKS. Daily attendance does not just mean a warm body in a chair doing whatever. You need to either be working on your ALEKS pie or on the pencil-and-paper activities and projects.

Absences: If a student misses 2 classes in the first two weeks or 3 consecutive class periods or 5 total, the student may be dropped from Math 101/102/103. If you are absent, you cannot make up those attendance points for that day, and you bear full responsibility for the material and procedural information covered in class.

Topic Mastery: Be aware, no matter how much computer time (or how little) you put in during your scheduled class at SODA, you will need to make progress each week. Plan on mastering a minimum of 10 topics each week in your pie. This does not mean you should just stop working in ALEKS once you master 10 topics in a week. Depending on where you are at the beginning of the semester, you may need to complete more topics each week in order to finish by May. Also, some topics take longer to master than others, so you want to work as diligently as possible *each week*.

Support Services: The UNM-Valencia Library provides a quiet atmosphere for study and is open several evenings during the week. Students can schedule appointments for STEM Center tutoring at (505) 925-8515. The Learning Center (925-8907) also offers tutoring at no cost to the student. Students who miss tutoring appointments may be denied future appointments.

Behavior Expectations: Students are expected to conduct themselves in a polite, courteous, professional and collegial manner. Cell phones must be set on silent. Please step into the hall if you need to take a call during class. Cell phones must be turned off during exams. If you take a call during an exam or quiz, or leave the room for any other reason, your paper will be collected and you will not be able to finish it.

Title IX Statement: 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>

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. 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.

ALEKS customer support:

Phone: (714) 619-7090

Email: <http://support.aleks.com>

Hours (Eastern Time):

- Sunday 4:00 PM to 1:00 AM
- Monday through Thursday 7:00 AM to 1:00 AM
- Friday 7:00 AM to 9:00 PM

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Activities and Projects – Additional Information

Activities and Projects: You will have a total of nine activities and projects to complete, in addition to your ALEKS pie. All activities and projects relating to a particular class should be turned in by indicated time, or, very latest before you start working on the practice problems for the final for that class. Since people will be turning in activities and projects at different times, I will make copies of the graded papers. If I receive a paper later from a student that looks identical or close enough that I suspect you just copied answers, **both** students will receive no credit for that assignment.

Mini-Project 1: Expressions, Equations, and Inequalities

Mini-Project 2: Linear Equations and Graphs

Project 3: Systems of Linear Equations (longer)

Mini-Project 4: Functions and Scientific Notation

Project 5: Polynomials, Functions, and Exponents

Project 6: Applications with Quadratic Equations

Project 7: Graphing Quadratics

Project 8: Rational Expressions and Equations

Mini-Project 9: Radical Expressions and Equations

due: January 20, all students

we did on January 10

due: Once completed pie slice in Math 102 called Systems of Linear Equations

due: Once completed pie slice in Math 102 called Exponents and Polynomials

due: Once completed pie slice in Math 102 called Exponents and Polynomials

due: Once completed pie slice in Math 103 called Quadratic Eqs. and Functions

due: Once completed pie slice in Math 102 called Quadratic Eqs. and Functions

due: Once completed pie slice in Math 103 called Rational Expressions

due: Once completed pie slice in Math 103 called Radicals

In Which Math?	When Due?	Activity/Project (see list above)
Math 101	January 20	MP 1 (we already did MP 2)
Math 102	After Systems of Eqs.	Project 3
Math 102	After Exponents and Polynomials	MP 4, Project 5
Math 102	After Quadratic Eqs. and Functions	Project 7
Math 103	After Rational Expressions	Project 8
Math 103	After Radicals	MP 9
Math 103	After Quadratic Eqs. and Functions	Project 6

Resubmission: If you do not do well on a project or activity, you can resubmit the assignment within one week of when it was graded. To do this, you need to complete the steps listed below. If you do not follow these directions, I will not regrade the assignment.

- Use a separate sheet of paper for corrections – do not correct directly on the original paper
- Submit corrections only on the problems you missed
- State a reason for why you missed the problem
- Rework the problem correctly
- Turn in corrections with the original graded assignment