

Math 102/103, Intermediate Algebra Parts II and III, Fall 2018 (ALEKS)

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I will check email everyday unless otherwise stated. If you send a message over the weekend (Friday through Sunday), I will likely respond as soon as I see it. I want to assist you as much as I can so that you can succeed in this course.

Office Hours:

I will be on campus most days (Monday and Wednesday) from 10:00 AM to 4:00PM but will hold schedule office hours as indicated below:

In my office, Cubical #20:

Monday **9:30AM to 10:30AM**

Math Center:

Wednesday **2:00PM to 4:30PM**

COURSE OVERVIEW: The sequence of one-credit-hour courses – MATH 101, 102, and 103 – provides preparation for MATH 121, MATH 129 and STAT 145. Emphasis is on problem solving skills. Though this course is acceptable as credit toward graduation from UNM-Valencia, and provides a math requirement for many Associate Degrees and Certificates, it does *not* satisfy UNM core or group requirements.

Course Student Learning Objectives that apply to all three courses: Upon successful completion of this course, students will be able to:

- Apply solution methods learned to “real-world” problems.
- Analyze solutions and give them contextual meaning.
- Communicate or present mathematical concepts using correct mathematical notation and terminology.
- Correctly use vocabulary related to functions.

MATH 102: Intermediate Algebra Part II

MATH 102.501				
CRN	Class Time	Days	ALEKS Course Code	Financial Aid Access Code
62390	12:00noon-1:15pm	M/W	G36WH-EKWVN	BD8C2-DAFBD-1D81C-1C0CA

MATH 102 Course Description: Math 102 includes solving and graphing quadratic equations, properties of exponents and scientific notation, simplifying polynomial expressions, factoring polynomials, and more development of functions. Completion of Math 102 with a grade of C or better satisfies the prerequisite for MATH 129 and STAT 145. There are *145 topics* in the ALEKS pie for Math 102 that are split up into four modules. You will need to complete a written quiz over each module before you can take the final exam.

Math 102 Course Student Learning Objectives in regard to skills acquisition:

Upon successful completion of this course, students will be able to:

- Sketch the graphs of linear and quadratic functions.

- Find equations for quadratic models and solving quadratic equations.
- Solve systems of two linear equations, use graphs, tables, and equations.
- Factor polynomials.
- Correctly use function notation.
- Be able to determine function values for given domain values, and determine domain values for given function values.
- Determine domains for functions.
- Simplify radical and rational expressions.

Course Prerequisite: Grade of C or better in Math 101.

MATH 103: Intermediate Algebra Part III

MATH 103.501				
CRN	Class Time	Days	ALEKS Course Code	Financial Aid Access Code
62391	4:30 to 5:45 PM	M/W	V3VQC-UYGER	D2937-827BA-B2049-C8FD7

MATH 103 Course Description: Math 103 includes simplifying radical and rational expressions, solving radical and rational equations, introduction to the exponential and logarithm functions. Completion of Math 103 with a grade of C or better satisfies the prerequisite for MATH 121. There are **184 topics** in the ALEKS pie for Math 103 that are split up into four modules. You will need to complete a written quiz over each module before you can take the final exam.

Math 103 Course Student Learning Objectives in regard to skills acquisition:

Upon successful completion of this course, students will be able to:

- Sketch the graphs of quadratic, exponential, and logarithmic functions.
- Find equations for quadratic models and solving quadratic equations.
- Factor polynomials.
- Correctly use function notation.
- Be able to determine function values for given domain values, and determine domain values for given function values.
- Determine domains for functions.
- Solve radical and rational equations.
- Rewrite exponential functions in logarithmic form and vice versa.
- Solve exponential and logarithmic equations using equating bases.

COURSE MATERIALS:

- ALEKS Student Access Code: This code is available for purchase in the bookstore or online at <http://www.aleks.com/>. Purchase a minimum of 18 weeks. This code will provide you access to all of the online materials for the course that will be required for the course. ***You must register for ALEKS by the end of the 1st week of classes, or within three days of registering for the class if you register late, or you will be dropped from the course.*** You

will need high-speed Internet access, the use of a web browser, and the ability to upload free software in order for the ALEKS program to run properly.

- **3-Ring binder (1 inch):** In your binder you should have 5 divider tabs. Refer to binder organization chart for requirements and details (see end of syllabus). Throughout the semester, there will be random binder checks – these points apply toward your participation grade.
- **Scientific Calculator.** Cannot be one on your cell phone or other mobile device.
- **Computer and access to the Internet:** It is important for you to work on the coursework outside of class time, so you will need reliable Internet access and a computer (not recommended to do work in ALEKS on a mobile device).
- **Other:** You will also need notebook paper, pencil.

ATTENDANCE POLICY:

You are expected to

- attend class every regularly scheduled class time
- be on time to each class and to stay the entire class.

Absences: I do not require you to give me any sort of documentation for up to three (3) absences, they will be automatically excused. However, even if you miss class, you are still expected to show progress (see above). Also, be sure to ask about any in-class activity we did on the day(s) you missed. Once you have used up your three absences, you cannot have any more absences excused.

Here are the reasons I *may* drop you from the class:

- If you miss the first week of the semester or the first week after you register for the class.
- If you have 3 or more absences during the first three weeks of the semester.
- If you are not registered in MML and completing assignments by the end of the first week you are in the class.

Do not expect me to drop you. If you decide you cannot fulfill the requirements for this class and want to drop yourself, be sure to process a drop (either online or with a form at the Registrar's office).

WEIGHTED COURSE AVERAGE:

Attendance	10%
Homework (Topics or Time in ALEKS or documented tutoring, binder)	20%
Projects (these are required for each module)	20%
Quizzes (three quizzes, one at the end of each of the first three modules)	20%
Cumulative Final Exam	30%

GRADING SCALE:

Depending on the grading option you have chosen, your final course letter grade will be determined as shown below.

Letter Grade	Final Exam score AND Course Weighted Average
A	70% or better AND 90% or better
B	70% or better AND 80% to 89%
C	70% or better AND 70% to 79%
CR	70% or better AND 70% or better
D+	Less than 70% AND 70% or better
D	Any AND 60% to 69%
D-	Any AND 50% up to 59.9%
F	Any AND Less than 50%
NC	Any AND 69% or less

WORK FOR THE COURSE:

Work in ALEKS: This course is computer-based mastery, therefore you are required to make sufficient progress each week or risk being dropped from the course. Your grade includes

- completing the required number of topics OR
- spending a minimum of 10 hours per week in the ALEKS program and/or working with an approved tutor (documented).

This means you will need to spend time on your math outside of class. Please seek help from tutors and instructors as needed. You may earn up to **10 Homework Points** each week for progress and time worked in ALEKS. This is based on how you did compared to your weekly goal. If you exceed your goal for the week, you can earn extra credit points. However, no more than 10% of your final course grade can be earned from extra credit.

Procedure for Documenting ALEKS Work in your binder:

- Take notes while working in ALEKS. Each separate day of notes needs to be labeled with the date and the pie piece/topic being covered.
- Work practice problems in an orderly manner.
- Copy the question on which you are working, and demonstrate your method of solution.
- Once you have a record of your work, input your answer in ALEKS.

ALEKS Notes and Practice Work can either be done on loose leaf paper and kept behind Tab 2 of Binder, OR be done in a separate notebook (spiral or pad) and filed behind Tab 2 in Binder.

Follow the same procedure for any ALEKS Knowledge Checks. (Date the assessment, number each question, copy and solve the question, then enter answer into the computer.) Work related to ALEKS Knowledge Checks (Initial and others) need to be filed behind Tab 4 of your binder.

Projects: You will be required to demonstrate mastery on at least one project (up to a maximum of 5 projects) for this course. If you score less than 90% on any of the required projects for you will need to conduct an error analysis of the incorrect work and correct the parts of the project that you missed. Projects count up to **20 Project Points each**.

Written quizzes:

Written quizzes will be given throughout the term. You are **required** to demonstrate mastery on these quizzes. If you score less than 90% on a quiz for you will need to conduct an error analysis of the incorrect work and correct the problems that you missed. Then you will need to retake the quiz. Quizzes count up to **10 Points each**. You may use a 3x5 note card for notes and formulas on quizzes and on the final exam.

Error analysis and correction:

If you score less than 90% on a quiz or project, you will:

- conduct an error analysis of the problems you missed and make corrections to those problems.
- Your error analysis and corrections need to be made on a separate sheet of paper. The correction paper is vertically divided in half. Put the number of the problem you missed and then rework the problem on the LEFT side of the paper, and write an explanation of what was done incorrectly on the RIGHT side for that particular problem.
- Once you have completed your error analysis and corrections, you will retake the quiz but the corrections for the project will be enough to earn back the points you missed.

Other requirements:

You will need access to UNM Learn. This is another program used for communicate in this class. Also, all of the required projects for this course will be posted in Learn. You will use your UNM NetID to log into Learn. You may access it directly via <http://learn.unm.edu> .

IMPORTANT DATES (all deadlines are by 5:00 PM Mountain Time):

The class you initially registered for is a first 8-week course, so the following deadlines apply.

Last day to add or change grading mode on LOBOWeb:	Friday, August 31
Labor Day Holiday	Monday, September 3
Last date to drop without a grade:	Friday, September 7
Fall Break	Thurs./Fri. October 11 & 12
Last date to drop without Dean's Permission:	Friday, November 9
Thanksgiving Break	Thurs./Fri. November 22&23
Last date to change grading mode with form	Friday, December 7
Last date to drop with Dean's permission	Friday, December 7
Finals Week	December 10 through 13

SUPPORT SERVICES: Math Center tutors are available in the Learning Commons M-Th from 8:00 to 5:00, and Fridays 8:00 to 1:00 (925-8907). There are also open computer labs on campus for students' use. The Valencia Campus Library provides a quiet atmosphere for study and is an excellent resource for supplementary materials.

CONDUCT 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.

- **ABSOLUTELY NO FOOD** is allowed in the computer labs. Drinks are only allowed if they are in sealed containers with tightly fitting lids that will not spill.
- During a quiz or exam, cell phones must be turned *off* and be out of sight. No personal electronic devices are allowed. A calculator is allowed if appropriate (some quizzes or portions of the final exam will have a restriction on calculator use). If you leave for any reason during a quiz or exam, your paper will be collected and you will not be allowed to continue working on that exam or quiz.

TITLE IX: 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>

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.