

MATH 021/022: Introduction to Algebra Parts I and II, Fall 2017 (ALEKS)

Instructor: Edric Chavez

email: echav84@unm.edu; echav84@aol.com

Office: Adjunct Faculty Offices (Academics Bldg) A113

Phone: 925-8600

OFFICE HOURS: Mon and Wed—4:30-5:30 Adjunct Office; or by scheduled appointment

ALEKS Customer Support: email: <http://support.aleks.com>

Phone: (714) 619-7090

Hours: Sun. 4:00 PM to 1:00 AM (Mon.); Mon – Thurs. 7:00 AM to 1:00 AM (following day);
Friday 7:00 AM to 9:00 PM

| MATH 021.505 | | | | |
|--------------|--------------|--------------|----------|---|
| SECTION | Class Time | Meeting Days | Location | ALEKS Course & Financial Aid Access Codes |
| 506 | 5: 30 – 7:10 | MON/ WED | VAHS 105 | N33TV-J4NNE C92A7-482E4-3B792-9BE20 |

MATH 021 COURSE DESCRIPTION: This TWO CREDIT course includes the first half of a beginning algebra course including a review of basic arithmetic, real numbers, linear equations and inequalities, and an introduction to application problems. Prerequisite: Grade of C or better in Math 099 or Math 011/012. Students must complete M 021 with a grade of C or better before registering for M022.

Math 021 COURSE STUDENT LEARNING OUTCOMES:

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

- Add, subtract, multiply, and divide whole numbers, fractions, and decimals.
- Calculate simple percentages
- Find area, perimeter, circumference, volumes of various geometric figures.
- Add, subtract, multiply, and divide positive and negative numbers, including integers, fractions, and decimals.
- Use the correct order of operations.
- Correctly simplify a numerical expression.
- Solve simple linear equations.
- Solve application problems involving linear equations in one variable.
- Solve application problems involving geometry.
- Solve simple linear inequalities.

| MATH 022.505 | | | | |
|--------------|---------------|--------------|----------|--|
| CRN | Class Time | Meeting Days | Location | ALEKS Course & Financial Access Codes |
| 506 | 5:30-7:15 P.M | MON/WED | VAHS 105 | K6QK9-M6UQW B0286-DB176-BEF65-8465B |

MATH 022 COURSE DESCRIPTION: This TWO CREDIT course includes the first half of a beginning algebra course including a review of basic arithmetic, real numbers, linear equations and inequalities, and an introduction to application problems. Prerequisite: complete Math 021 with a C or better.

MATH 022 COURSE STUDENT LEARNING OUTCOMES:

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

- Graph simple linear equations.
- Calculate the slope of a line between two points.
- Find the rate of change.
- Find the equation of a line from pairs of points or a point and a slope.
- Correctly use the properties of integer exponents while multiplying and dividing common bases.

- Correctly use zero exponents.
- Correctly use negative integer exponents.
- Add, subtract, multiply, and divide polynomials.
- Understand common factors.
- Factor simple polynomials.

While Math 021/022 provide credit hours toward establishing a full-time load for financial aid purposes, and allows you to complete the prerequisites for subsequent Mathematics courses, these courses do not satisfy UNM core degree requirements.

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), 5 divider tabs, notebook paper, pencil, 3X5 note cards. Refer to binder organization chart for requirements and details (see end of syllabus).

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.

If you miss 2 consecutive classes you **may** be dropped from the class. If you know ahead of time that you will be absent or tardy, please inform your instructor by email or phone. You bear full responsibility for the material and procedural information covered in class.

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, based on how you did compared to your weekly goal.

Binder: You are required to have your binder in class every day. There will be random binder checks – these points apply toward your **Participation grade**.

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.

The same procedure is followed 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: In this section, students will be earning certificates through completion of projects in the Math Center (at least one will be required). Projects count up to **20 Homework Points each**.

Written quizzes:

Written quizzes will be given throughout the term. You are **required** to demonstrate mastery on these quizzes as well as your work in ALEKS. If you score less than 90% on a quiz, 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.

Quizzes are worth **100 Points each**.

A 12 X 12 multiplication chart and a 3"x 5" note card will be allowed for all quizzes and tests. The note card for the final exam should only contain formulas. A scientific calculator will be allowed for only a portion of these assessments.

DOCUMENTATION OF TUTORING HELP:

If you work with a tutor, you will need to provide documentation with a Tutor Slip completed by the Tutor. You can print a Tutor Slip from our course in Blackboard Learn.

Tutoring time will be included in your homework grade.

COMPLETION OF THIS COURSE:

In order to complete this course, you will need to:

- complete 100% of the ALEKS pie and receive a completion certificate from Aleks.
- demonstrate mastery on all of the written quizzes for this course.
- complete other assignments required by your instructor (for example, projects)
- complete a take home mock final, and then check your answers with the answer key (provided after you have completed the problems on the mock final).
- score a 70% or better on the final exam.

WEIGHTED COURSE AVERAGE:

| | |
|---|-----|
| Attendance and Participation (includes binder checks) | 10% |
| Homework (Topics or Time in ALEKS or documented tutoring, projects) | 25% |
| Quizzes (average of quiz scores) | 25% |
| Cumulative Final Exam: must be taken by 12:30 PM Wednesday, December 13, 2017 | 40% |

GRADING SCALE: Grades for this course will be assigned as follows:

| Course Average | Course Letter Grade | Students will be allowed one take on the final exam and must score a 70% or better on the final to receive a passing grade for this course. |
|----------------|---------------------|--|
| 90-100% | RA | |
| 80-89% | RB | + or – grades are assigned at the discretion of the instructor |
| 70-79% | RC or CR | |
| <70% | RNC | |

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

| | |
|--|---------------------------|
| Last day to add or change grading mode on LOBOWeb: | Friday, September 1, 2017 |
| Last date to drop without a grade: | Friday, September 8, 2017 |
| Labor Day Holiday: | Monday, September 4, 2017 |
| Fall Break: | October 12-13, 2017 |
| Last date to drop without Dean's Permission: | Friday, November 10, 2017 |
| Thanksgiving: | November 23-26 |
| Last date to change grading mode with form | Friday, December 8, 2017 |
| Last date to drop with Dean's permission | Friday, December 8, 2017 |

SUPPORT SERVICES: Math Center tutors are available in the Learning Commons M-Th from 8 to 5, and Fridays 8 to 1 (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.

Binder Requirements
Math 021/022
Fall 2017

You need to have a 3-Ring binder (1 inch) with 5 divider tabs

Tab Headings:

- Tab1: **Syllabus/Reference**
 - Course syllabus
 - Binder requirements (this page)
 - Treasure Hunt
 - References for class information
- Tab 2: **POD/Notes**
 - Notes taken in class/tutoring
 - POD
 - Formula sheet
 - Definitions
- Tab 3: **ALEKS Work**
 - ALEKS work dated and labeled (see instructions in syllabus)
- Tab 4: **Resources**
 - Certificates earned
 - Tutoring Slips
- Tab 5: **Assessments**
 - Knowledge Checks work dated and labeled (see instructions in syllabus)
 - Quizzes
 - Quiz Error Analysis and Corrections as needed

Students enrolled in Math 193 will have additional tabs required for this binder.