

**SYLLABUS**  
**Math 193 503: Critical Thinking for Math**  
**Spring 2016**

**Instructor:** Alice Lawson **Office:** Adjunct Faculty Office, Acad. Bldg.  
**Office Hours:** Monday and Wednesday 12:30 PM – 1:15 PM **email:** [alawson@unm.edu](mailto:alawson@unm.edu) preferred  
**Phone:** 925-8600 (Academic office)

The Portfolio as described below will serve as a final exam.

**I. Course Description:** Math 193: Critical Thinking for Math (2 credits) will develop strategies for successful achievement in mathematics including developing academic skills as a foundation for college learning, employing critical thinking skills in problem solving, utilizing multiple problem-solving strategies & methods, developing a mathematical awareness of the world and expanding confidence in mathematical ability that will be valuable throughout a college career. Placement: Math 193 is required of all students who place into Math 021 and Math 022. Co-requisite: Math 021 and Math 022. **Class meets on Mondays and Wednesdays in room C108 from 3:30 PM to 4:20 PM.**

**II. Course Materials:** Math 193 Booklet & Handouts. All Math 021 and Math 022 course materials.

**III. Attendance Policy:** Students are expected to attend regularly and to be on time. Two unexcused absences in the first 2 weeks or three total unexcused absences are considered to be excessive and the student may be dropped from the class at the discretion of the instructor. If you are dropped from Math 193, you will be dropped from Math 021 and Math 022 as well.

**Your attendance grade is calculated as follows:**

- 1<sup>st</sup> unexcused absence will drop your attendance grade to 90%
- 2<sup>nd</sup> unexcused absence will drop your attendance grade to 80%
- 3<sup>rd</sup> unexcused absence will result in you being dropped from the class

**IV. Grading Policy:**

A+ 98% + , A 93 – 97% , A- 90 – 92% , B+ 88 – 89% , B 83 – 87% , B- 80 – 82% , C+ 78 – 79% ,  
C 73 – 77% , C- 70 – 72% , D 60 – 69% , F below 60%

The graded categories are roughly described below:

Attendance & Participation 50%

Portfolio 50%

Students are required to bring their Math 021 and Math 022 /193 binders to every class. All portfolios are due the last class day the week before final exams. NO late portfolios will be accepted.

### **Attendance & Participation:**

The student must be on time and remain for the entire class session, have the necessary course materials on hand and participate in class to receive full credit for attendance & participation each day. If absent, the student must see the instructor in person, contact her by email or leave a message within 24 hours to change an unexcused absence to an excused absence. Since nearly all of the Math 193 work will be completed in class each absence will reduce the Attendance & Participation grade.

### **Binder Organization:**

- **Section 1** – Math 021 and Math 022 & Math 193 Course Organization. This section will store Calendar Pages or Planner. A calendar will be used to track the schedule of Math 021 and Math 022 and Math 193 class meetings, the amount of time spent studying and working in Aleks, the students own attendance, and other scheduled obligations and progress. Calendar pages can be printed from the Internet and must cover the entire semester and be dated.
- **Section 2** – Math 021 and Math 022 **Class Notes**, Practice Problems and Tests. This section will store notes, practice problems and tests from Math 021 and Math 022. Taking notes and working problems on paper while working in Aleks is required and is part of the final grade.
- **Section 3** – **Math 193 Problem Solving Exercises**. The work on word problems and related write-ups will be stored in this section. Problems must be copied or described completely and dated.
- **Section 4** – This section will be used to record and describe all supplemental material you use to succeed in your Math 021/022 and Math 193 classes. This section can have notes from tutoring sessions, video lessons, and other math supplemental resources.

**Portfolio Requirements:** Portfolios are due the last day of class the week before finals week. No late portfolios will be accepted. More details are given in Math 193 Booklet.

Portfolio Requirements are:

- Cover Letter
- Five Problem Solving Write-Ups
- Notes from Math 021 and Math 022 class – One Unit and One Set of Study Materials for Math 021 or Math 022 Exam
- Error Analysis for One Math 021 or Math 022 Exam
- Use of Mathematics in your life 500 Word Essay

### **V. Support Services:**

The Valencia Campus Library provides a quiet atmosphere for study and is an excellent resource for supplementary materials. Audiotapes and videotapes are available for student use through both the library and the Student Enrichment Center. The Highway to Success offers tutoring at no cost to students. Please call 925-8907 for an appointment. Students who miss tutoring appointments may be denied future appointments.

**VI. Expectations:** Students are expected to conduct themselves in a polite, courteous, professional and collegial manner. Cell phones must be turned off or in silent mode. Please step into the hall if you need to take a call during class. Any disruption of a class caused by a cell phone will result in the student being asked to leave the class at once.

**VII. Disability Statement:** Students with Disabilities and Special Learning Needs: Student Services provides a number of services for students with documented special needs. The Equal Access Office number is 925-8510. 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 your accommodations are provided in a timely manner.

**VIII. 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.

In an effort to meet obligations under Title IX, UNM faculty, Teaching Assistants (TA), and Graduate Assistants (GA) 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/university-policies/2000/2740.html>

**IX. Major Students Learning Outcomes:** At the conclusion of the course, students will be able to

- develop academic skills as a foundation for college learning
- employ critical thinking skills in problem solving
- utilize multiple problem-solving strategies & methods
- develop a mathematical awareness of the world
- expand confidence in mathematical ability