

MATH 193: Topics in Mathematics: Critical Thinking for Mathematics

Instructor

Dr. Ariel Ramirez

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Office: LRC 172

Class Details

Monday/Wednesday

Class Time: 9:20-10:10am

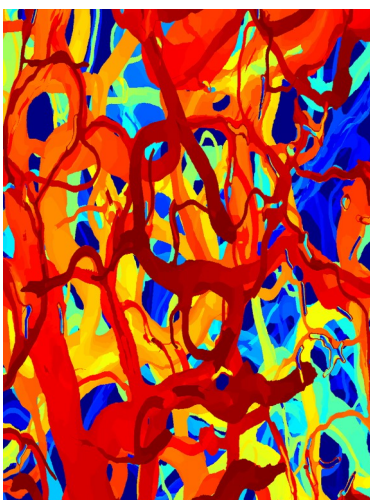
Room: Vocational/Career

Tech Center 108

Office Hours

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

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



Mingzhai Sun & Joshua Shaevitz

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Course Description

Critical Thinking for Math will help students develop and implement strategies for successful achievement in mathematics throughout their college career and beyond. Placement: Math 193 is required of all students who place into Math 021 (2 Credit Hours).

Co-requisite: Math 021, Math 022, or Math 100.

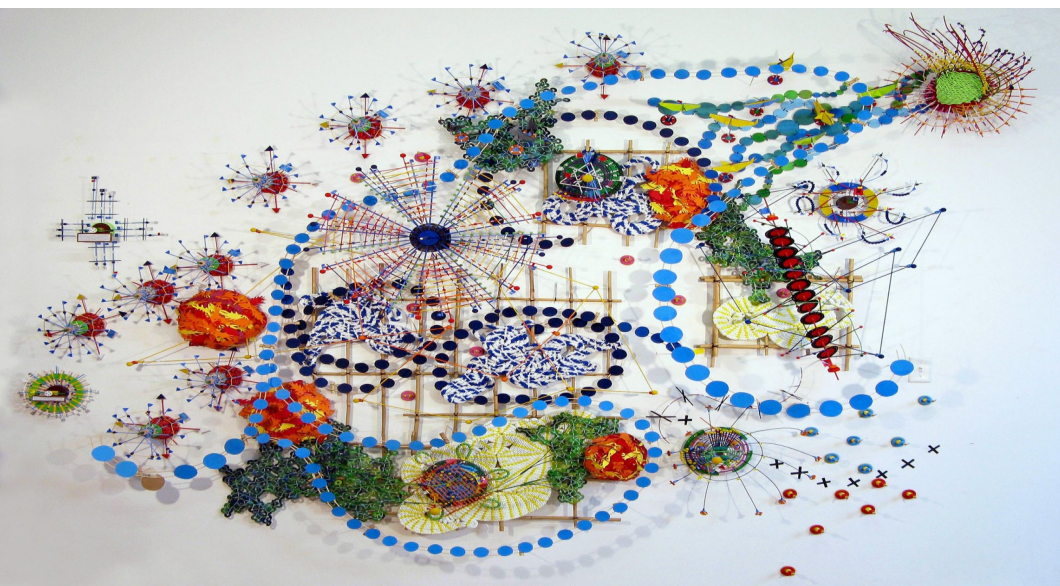


Course Outcomes

- Develop academic skills as a foundation for college learning.
- Employ critical thinking skills in problem solving.
- Utilize multiple problem-solving strategies and methods.
- Develop a mathematical awareness of the world.
- Expand confidence in mathematical ability.

Instructional Methodology

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



"Changing Waters-- Gulf of Maine" - Nathalie Miebach

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 40 attendance points. Attendance is taken at the **beginning** of class. Three attendance points are deducted for each unexcused absence; One attendance point for tardiness.

Portfolio

An organizational chart for the Portfolio will be distributed during the second week of class.

Binder (additional tabs from Math021/022/100)

Tab #5: Math 193 Syllabus

Tab #6: Math 193 Notes/Handouts

Grading Distribution & Scale

Attendance & Class Participation	40%
Binder Organization	10%
Portfolio	50%

GRADING SCALE: While you will receive credit toward establishing a full-time load for financial aid purposes for Math 193, this course is NOT accepted to satisfy UNM core degree requirements. Students in this course will receive the following grades:

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



Carl Friedrich Gauss 1777-1855

Gauss worked in a wide variety of fields in both mathematics and physics including number theory, analysis, differential geometry, geodesy, magnetism, astronomy and optics. His work has had an immense influence in many areas.

<http://www-history.mcs.st-andrews.ac.uk/Biographies/Gauss.html>

Course Materials

Textbook: Math 193 Critical Thinking, Problem Solving, and Math Study Skills.
This is available in the UNM-VC Bookstore.

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.



Circle Limit IV—Woodcut 1960 - M.C. Escher

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:

Friday, January 26, 2018

Last date to drop without a grade:

Friday, February 2, 2018

Spring Break:

March 12-16, 2018

Last date to drop without Dean's Permission:

Friday, April 13, 2018

Last date to change grading mode with form

Friday, May 4, 2018

Last date to drop with Dean's permission

Friday, May 4, 2018

Finals

Week of May 7th, 2018