

Math 347, Section D1 & X2

Fundamental Mathematics

D1: MWF, 11-11:50a, 140 Henry
X2: MWF, 12-12:50p, 441 Altgeld

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Office Hours: Wednesday 1-2p and by appointment

The contents of this syllabus are subject to change at anytime during the semester.

Course Description: Fundamental ideas used in many areas of mathematics. Topics will include: techniques of proof, mathematical induction, binomial coefficients, rational and irrational numbers, the least upper bound axiom for real numbers, and a rigorous treatment of convergence of sequences and series. This will be supplemented by the instructor from topics available in the various texts. Students will regularly write proofs emphasizing precise reasoning and clear exposition.

Credit Hours: 3

Text(s): *Mathematical Thinking*, 2st Edition

Author(s): D'Angelo and West

Grade Distribution:

HW	25%
Midterm Exams	20% each
Final Exam	35%

Exam Dates:

Exam 1	October 4
Exam 2	November 8
Final Exam	TBA

Course Policies:

- **Grades**

- We will be using Moodle for this course. Please let me know of discrepancies in your grade as they appear throughout the term.

- **Assignments**

- Homework will typically be assigned every week on Monday and due the following Monday.
- No late homework will be accepted. However, I will drop the lowest Homework grade.
- You are permitted, and in fact encouraged, to discuss homework problems with your fellow classmates. However, the solutions you submit **must** be written in your own words.

- **Exams:**

- All exams will be closed book and closed notes. The use of calculators or other electronic devices is not permitted.
- There will be no make up exams. If you have a conflict, you must let me know ahead of time so that we can come to a satisfactory arrangement.
- There will be two midterm exams, each will be 50 minutes and given in class.
- The final exam must be given at the officially assigned Final Exam slot provided by the University. In particular, a student is not permitted to take an earlier exam to accommodate travel plans. The final exam schedule will be made public on October 4, so make travel plans after this date.

- **Attendance and Absences**

- Students are responsible for all missed work, regardless of the reason for absence. It is also the absentee's responsibility to get all missing notes or materials.

- **Students with disabilities:**

- Students with disabilities who require reasonable accommodations to should see me as soon as possible. In particular, any accommodation on exams must be requested at least a week in advance and will require a letter from DRES.

- **Academic integrity:**

- Cheating is taken very seriously, so please don't do it. Penalties for cheating on exams, in particular, are very high, typically resulting in a 0 on the exam or an F in the class.