

# MATH 347 Fundamental Mathematics Section E1 and G1

Meng Guo

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## 1 General information

**Instructor:** Meng Guo, mengguo1@illinois.edu

**Meeting time:**

- E1 MWF 1:00-1:50 in 341 Altgeld Hall
- G1 MWF 3:00-3:50 in 241 Altgeld Hall

**Webpage:** On Canvas

**Office hours:** MWF 2:00pm – 2:50pm via Zoom.

Meeting ID: 821 1363 2655

Password: 982974

link:<https://illinois.zoom.us/j/82113632655?pwd=L0ErTFVlNjF1VUxIY2JsaVUvVFpRZz09>

**Textbook:** An introduction to Abstract Mathematics by Donaldson and Pantano. Available for purchase at the bookstore and available online: <https://www.math.uci.edu/~ndonalds/math13/notes.pdf>

## 2 Course content

This is an introduction to mathematical language, rigorous mathematical thinking, fundamental mathematical structures, and methods of proof. Topics include logic, set theory, induction, equivalence relations, functions, number theory, cardinality, and convergence.

## 3 Grading scheme

- Homework: 20%;
- Two midterms: each 20%;
- Final exam: 35%;
- Your highest exam score from the midterms and final: 5% (the weight of that exam will be increased).

We will not curve the final averages down. For example 90% guarantees an A- grade, 80% a B-, and so on.

## 4 Homework

Each week, around 5 to 8 problems will be assigned for turning in. They will be graded both on completeness of solution and on clarity of explanation. Typesetting your solutions using TeX is encouraged. Group discussion is encouraged, but each person should have their own write-up of the solutions/proofs.

The homework will usually be due on Wednesdays. The first homework will be assigned in the second week. The first due day will Feb 3. Two lowest grades will be dropped.

There may be reading assignments of the textbook for you to understand the materials better.

## 5 Midterms

There are two in-class midterms. Time is to be determined.

## 6 Final

Check UIUC final exam schedule: <https://registrar.illinois.edu/courses-grades/final-exam-schedule-public/>

- E1 8:00-11:00 a.m., Friday, May 13
- G1 7:00-10:00 p.m., Tuesday, May 10

The date may change. Stay tune!

## 7 Academic integrity

Violations of academic integrity will be taken seriously, and will be handled under the procedures of Article I, Part 4 of the student code.

You are encouraged to discuss course material (including homework problems and proof portfolio problems) with other students in the course. The writeup of the solutions which you submit must be done on your own. In no case should solutions be copied from other sources (e.g. from internet sites or from other students). All work on exams must be done independently with no aid from any other source. If there are questions about these policies, please don't hesitate to bring them up.

## 8 Resources for students with disabilities:

To obtain disability-related academic adjustments or auxiliary aids, students with disabilities should contact the course instructor and Disability Resources and Educational Services (DRES). To contact DRES, you may visit 1207 S. Oak St., Champaign, call 333-4603, e-mail [disability@illinois.edu](mailto:disability@illinois.edu) or go to the DRES website.

## 9 Support resources and supporting fellow students in distress

As members of the Illinois community, we each have a responsibility to express care and concern for one another. If you come across a classmate whose behavior concerns you, whether in regards to their well-being or yours, we encourage you to refer this behavior to the Student Assistance Center (333-0050) or online at [odos.illinois.edu/community-of-care/referral/](https://odos.illinois.edu/community-of-care/referral/). Based upon your report, staff in the Student Assistance Center reaches out to students to make sure they have the support they need to be healthy and safe.

Further, we understand the impact that struggles with mental health can have on your experience at Illinois; significant stress, strained relationships, anxiety, excessive worry, alcohol/drug problems, a loss of motivation, or problems with eating and/or sleeping can all interfere with optimal academic performance. We encourage all students to reach out to talk with someone, and want to make sure you are aware that you can access mental health support at the Counseling Center ( [counselingcenter.illinois.edu](https://counselingcenter.illinois.edu)) or McKinley Health Center ([mckinley.illinois.edu](https://mckinley.illinois.edu)).