

Theory of Numbers

Math 319, Spring 2009

Syllabus, abbreviated version (full version available on course website)

Basic Course Information

- Required materials:
 - *Number Theory* by Andrews
 - *Higher Arithmetic* by Davenport
 - Well organized notebook or binder (you will often need to reference or re-submit problems)

Contact Information

- Your instructor: Dr. Patrick Rault
 - rault@geneseo.edu
- **Office:** 326C South Hall
 - **Office Hours:** Mondays 5:45-6:45pm (in 336 South Hall), Thursdays 2-3pm
 - **Monday problem session:** The Monday office hour (listed above) is a problem session specifically for Number Theory students. We will be in a larger classroom in hopes of higher turnout.
- **Course website:** www.geneseo.edu/~rault/
- **Mycourses:** <https://mycourses.geneseo.edu/>

Class Structure

- **Problem sets:**
 - Deadlines: Each problem set will have a deadline. However, any *Proof, Disproof, or Salvage if Possible* problem may be resubmitted or submitted late for partial credit.
 - Points: Most problems are out of 4 points. Exceptions include *Reading* (2 points) & *Ingenuity* (8 points)
 - Axiom lists: You must submit an axiom list with which you will prove your theorems.
 - Lemma lists: You may also include a list of lemmas to abbreviate your problem solutions.
- **Discussion forums:** on mycourses I will post a variety of discussion questions. You may get credit towards your problem set grade for *one posting per week*:
- **Exams:** There will be one **midterm exam** and one **final exam**. The midterm exam will take place in the evening. Both exams have equal worth in your final grade.
 - The final exam in this class will be Tuesday May 12th, 8-11am.

Grading

- 50% Problem sets
- 25% Midterm exam
- 25% Final exam

Shorthand Feedback

In order to maximize the amount of feedback I can give on problem sets, I will use several shorthand abbreviations, available on the longer online syllabus.

Collaboration

Joint-solutions: You may submit joint problem sets with one classmate, with the following restrictions:

- You alternate writing the solutions to the problem set
- You may not switch partners during the semester, however you may stop working with a partner
- Whoever is not writing the solutions is the *checker*. He or she is most responsible for ensuring that the work is correct. For this reason, I expect jointly-submitted solutions to be *better* than individually-submitted solutions.

Citations: If you use any of the following to solve a problem, you should cite it:

- *Books / webpages*: if you found a great idea from a book or webpage, cite where you got it.
- *Classmates*: if you received a great idea from a classmate, cite whom you got it from. If contributions between you and your classmate were equal, say so.
- *Computer calculations*: write the code you used.

Study Buddies

1) Name: _____ E-mail / phone: _____

2) Name: _____ E-mail / phone: _____

3) Name: _____ E-mail / phone: _____

4) Name: _____ E-mail / phone: _____