

# Syllabus for Math 430

## Theory of Numbers

Fall 2024

**Instructor:** Claire Levaillant. Class meets MWF 11-11:50AM in KAP 163.

**Office Hours:** M 8-9AM, WF 10-11AM in KAP 248 near the Math Center.

**Textbook:** Elementary Number Theory, 7th Ed. by David M. Burton (first nine chapters).

**Exams and Homeworks:** there will be a midterm exam, a final exam and some homeworks. Your final grade will be based on attendance, participation, homeworks and exams. Grade percentages: Homeworks 30%, Midterm 30%, Final: 40%. The homeworks will be assigned on Wednesdays and due in class on Wednesdays. The midterm will take place on a Wednesday and will be announced two weeks before.

**Course Description:** we will cover topics such as prime factorization, congruences, number theoretic functions, diophantine equations.

**Course Modalities:** In order to be successful in this class you should attend each lecture, take notes, review your notes, ask questions etc. Because I won't be following the textbook exactly, the textbook should be regarded as support or complement to the class.

You are encouraged to work together on homeworks as long as you write solutions individually in your own words.

If you have questions about the class, it is preferable to see me after class or during office hours, instead of emailing me. I receive a too big flow of emails from the students and can't answer each of them. Thus, I won't answer any email which could have been treated in person. If it happens that you cannot make it to class, please do not email me. Each of you should get to know a classmate on whom you can rely for missing notes, homework assignments etc. It is your responsibility to catch up if you miss a class, including getting all the information from your classmates.

**Disability Services:** Any student requesting accommodations based on a disability is required to register with the Office of Student Accessibility Services (OSAS) each semester. Their email address is OSASFrontDesk@usc.edu and their phone is (213) 740-0776.