Spring 2022
MATH 619-01 (47966): Theory of Numbers
MoWe 9:15AM – 10:30AM in Kiely Hall 334

Professor: Maria Sabitova
   email: Maria.Sabitova@qc.cuny.edu
   Office: 610 Kiely Hall
   Office hours: MW 12:15–1:15 PM and by appointment


Syllabus: We will cover (all or parts of) Chapters 3, 4, 6, 8, 11–13.

Web-page: http://qcpages.qc.cuny.edu/~msabitova

Tools:
   • Blackboard

Homework: Blackboard, weekly graded (due on Wednesday) – 10%
   Late homeworks might be accepted, 50% penalty applies.

Quizzes: in person, weekly graded (MW 10–15 minutes during our class time) – 5%
   Quizzes can be taken only during the class time, no make-up for the quizzes.

Tests (3+1):
   All exams are during our class time in person.
   1. First midterm: Wednesday, March 2nd – 20%
   2. Second midterm: Wednesday, April 6th – 20%
   3. Third midterm: Wednesday, May 11th – 20%
   Final exam: see CUNYfirst – 25%
   Exams can be taken only during the class time, no make-up for the exams.
Course description: MATH 619. Theory of Numbers. 3 hr.; 3 cr. Prereq.: Mathematics 231 or 237. Prime numbers, the unique factorization property of integers, linear and non-linear Diophantine equations, congruences, modular arithmetic, quadratic reciprocity, continued fractions, contemporary applications in computing and cryptography.

Useful links:
- Special Services for Students with Disabilities
- ITS Help Desk (technical support)

Expectations:
- Please read CUNY’s Academic Integrity policy
- You have one week since the moment you register for the course to let me know about any conflicts with the exams.
- The exams will be based on problems and theorems discussed in class as well as on the homework.
- There are no make-up or earlier exams.
- There is no make-up or alternate final.
- Missing a class does not release a student from the responsibility concerning the material and lecture notes.
- You are encouraged to ask questions in class.
- Missed exams require extensive documentation to verify absence. You are strongly encouraged to make every effort to attend exams. You can challenge my grading of an exam within a week after that exam.