Instructor: Alexandra Viktorova.

Contact information: You can contact me by email: alexandra.viktorova@stonybrook.edu. Office hours will be conducted via Zoom, a schedule for office hours will appear later.

Lectures: Lectures will be delivered via Zoom (synchronous online) on Tuesdays and Thursdays 9:30am-12:55pm, beginning on Tuesday, July 7 and ending on Thursday, August 13.

Textbook: Numbers, Groups and Codes (2nd Edition), Humphreys and Prest.

Exams: There will be one midterm and a final exam. Both of them will be take-home exams. They will be uploaded on blackboard and you will have several days to do them (the exact dates will appear later). No make-up exams will be given.

Grading: Homework – 20%, Midterm – 30%, Final – 40%, Quizzes – 10%.

Homework: I will post assignments on the course blackboard page. No late homework will be accepted.

Quizzes: I will post quizzes on the course blackboard page.

Tentative schedule:

Week 1: Euclid's Algorithm, Unique Factorization Theorem, Modular Arithmetic (sections 1.1, 1.3-1.5 in the book)
Week 2: Modular Arithmetic, Euler's Theorem, Public Key cryptography (sections 1.5-1.6)
Week 3: Permutations, Intro to groups, Group Theory (sections 4.1-4.3, 5.1-5.2)
Week 4: Groups of small order, Groups and codes (sections 5.3-5.4)
Week 5: Polynomials, Division and Factorization of polynomials (sections 6.1-6.3)
Week 6: Polynomial congruence classes, Cyclic Codes (sections 6.4-6.5)

Americans with Disabilities Act: If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Disability Support Services, ECC (Educational Communications Center) Building, Room 128, (631)632-6748. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential. http://studentaffairs.stonybrook.edu/dss/index.html

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