

## MAT 312/AMS 351, LECTURE 01: SPRING 2016

### Topics and Text:

In this course we will discuss elementary results in number theory, set theory and group theory. Also several topics in coding theory are developed, related to number theory and group theory. Our text for the course is *Numbers, Groups and Codes*, second edition, by J.F.Humphreys and M.Y.Prest.

### Your Teachers:

**Lowell Jones** is teaching Lecture 01, which meets on Tuesdays and Thursdays from 10:00am to 11:20am in Heavy Engineering Lab 201. His office is in **math. building 2-111**; office hours TBA; contact by email at [lejones@math.sunysb.edu](mailto:lejones@math.sunysb.edu); contact by phone at 631-8248.

**Rayne Goldberg** is teaching recitation 01, which meets on Mondays 11am-11:53am in Library E4320. Rayne's office is in **physics D-101, the the physics building**; office hours TBA; contact by email at [rayne@math.stonybrook.edu](mailto:rayne@math.stonybrook.edu).

### Homework

Homework is assigned for each week and should be handed in the following week to your recitation teacher during the recitation class for that week.

The first homework assignment can be found by going to the date 1/25/15 on the course "Calendar" (on our course Black Board website) and clicking on "HW 1 and topics". The second homework assignment can be found by going to the date 2/1/15 of the second week of classes and clicking on "HW 2 and topics". Likewise all later home work assignments can be found by going to the Monday of the appropriate week on our course "Calendar" and clicking on "HW and topics".

**Exams** There is one inclass midterm and a final exam, scheduled as follows:

Midterm: Tuesday 3/22/15, in lecture class.

Final exam: Friday 5/13/16 , 11:15am-1:45pm.

If you continue with this course it is with the understanding that you are able to take all of the exams at the scheduled times. If you miss an exam for reasons beyond your control, then discuss this as soon as possible with either Lowell Jones or your recitation teacher. **Scheduling problems – such as another exam scheduled at the same time as your Mat 312-AMS 351 exam – are not considered an acceptable reason for missing an exam.**

### **Grading Policy**

Homework=30%,

Midterm=30%,

Final exam=40%.

### **Disability Support Services (DSS) Statement**

If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Disability Support Services at 631-632-6748 or at <http://studentaffairs.stonybrook.edu/dss/> . They will determine with you what accomadations are necessary and appropriate. All information and documentation is confidential.

### **Academic Integrity Statement**

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty are required to report any suspected instance of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at <http://www.stonybrook.edu/uaa/academicjudiciary/>.

### **Critical Incident Management**

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the saftey of the learning environment, and/or inhibits students' ability to learn.

**Course Schedule**

**week of 1/25-1/29:** cover section 1.1

**week of 2/1-2/5:** cover sections 1.2-1.3

**week of 2/8-2/12:** cover sections 1.3-1.4

**week of 2/15-2/19:** cover section 1.5

**week of 2/22-2/26:** cover section 1.6

**week of 2/29-3/4:** cover sections 2.1-2.2

**week of 3/7-3/11:** cover sections 2.3,4.1

**week of 3/14-3/18:** spring recess (no classes)

**week of 3/21-3/25:** midterm on Tuesday 3/22; cover section 4.2 on Thursday 3/24

**week of 3/28-4/1:** cover section 4.3

**week of 4/4-4/8:** cover section 5.1

**week of 4/11-4/15:** cover section 5.2

**week of 4/18-4/22:** cover section 5.3

**week of 4/25-4/29:** cover section 5.4

**week of 5/2-5/6:** catchup and review