## Math 741 Algebra I for Graduate Students F15 - Syllabus

Instructor: Dr. Shamgar Gurevich, 317 VV. Grader: Mr. Ben Mark.

## Time and Location:

- Lectures: MWF 1:20-2:10am, Room STERLING 1313.
- Presentations: M 5-6:30pm.

Office Hours: W 2-3pm or by appointment.

**Texts:** The course notes. In addition the following books can be of some help: Algebra by Artin, Algebra by Lang, Linear representations of finite groups by Serre.

Computer systems: Gap, Magma, Mathlab, Sage, Etc.

Course assignments and grading: There will be:

- Homework every week. Presentation of solutions as part of your team in our weekly meeting.
- Take home exam: Given Dec 1, and due in Dec 11.

The final grade is composed from:

HW	50%
Exam	50%

Topics: Basics of

- 1. Groups Theory.
- 2. Representation Theory.
- 3. Ring Theory.
- 4. Linear and Multilinear Algebra, Category Theory.

## Good Luck!