18.702 SUBJECT DESCRIPTION

Group Representations, Rings, Fields

Prerequisite: 18.701

Formal Course Requirements: Weekly problem sets will be graded. There will be three quizzes during the regular class hour, and no final exam. To receive a passing grade for the course, you must submit solutions to at least 75% of the problems on the weekly assignments. Assuming that this is done, weighting in the final grade will be roughly 25% for the homework and 25% for each quiz.

Quizzes will be given in Walker 50-340, during the usual class hour, 10-11, on the following days:

Mon Mar 4, Mon Apr 8, Fri May 10.

Preparation: The course outline contains reading assignments and exercises on the topic of each lecture. I rely on you to do the reading. Do it ahead of time if possible. Work the problems in the course outline, but do not turn them in. The problems on the quizzes will be at a similar level. See me if you have serious difficulties with the ones in the outline.

Homework: The weekly problem sets are the most important part of the course. They contain problems that are lengthier and more difficult than those in the course outline, and require serious thought. You may work in groups on these problem sets. However, the solutions that you hand in must be written entirely by you. Consulting existing solutions, such as from previous years’ problem sets or from the web, is not permitted. I will post comments on the problems after the assignments are due.

Please:
- List your collaborators at the top of your assignment.
- Use a separate sheet of paper for each problem. !Put your name on each sheet!
- Put your solutions into the appropriate slots by room 4-174.
- You must hand in your assignments on time.

Text: Artin, Algebra, 2nd ed.

Instructor: Mike Artin, artin@math.mit.edu, Room 2-274, extension 3-3689. Office Hours Tu 1-2, W 1-2 or by appointment.

TA: Chun Hong Lo, loch@mit.edu, Room 2-231A. Office Hours Mon 5-6.

You are encouraged to make use of the office hours. If you can’t make the times listed, see me after class or email one of us to set up an appointment. Please arrive to office hours during the first half hour. We may leave after a half hour if no one is there.

Web address: www-math.mit.edu/classes/18.702/