

# MATH 330: Abstract Algebra

## Spring 2016

**Location:** AH 306  
**Time:** MWF 1:00pm-1:50pm  
**Instructor:** Michael Hull  
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**Website:** math.uic.edu/~mbhull/  
**Office:** SEO 713  
**Office Hours:** MWF 10am-11am

### **Course Description:**

Sets, properties of integers, groups, rings, fields.

### **Textbook:**

*A Concrete Approach to Abstract Algebra: From the Integers to the Insolvability of the Quintic* by Jeffrey Bergen.

### **Weekly schedule**

Most weeks, Wednesday and Friday will be devoted to lectures on new material. Students are expected to actively participate in lecture by asking and answering questions. Once a week, usually Monday, will be dedicated to discussing homework problems, reviewing material from the lecture, and working on new problems in class either individually or in groups. At the beginning of these classes, students will turn in written solutions to the homework problems, and then students will be called upon in turn to present solutions to these problems on the board.

### **Homework**

Homework problems will be assigned during each lecture. Once a week, usually Mondays, students will turn in written solutions to the homework problems assigned in the previous lectures. Most homework problems will involve writing proofs, and students are expected to write in a way that is clean, readable, and grammatically correct.

Students are encouraged to discuss homework problems and work on them together, but students should write their own solutions and not copy them. The main rule is that a student should never turn in a solution that they do not understand.

### **Homework Grading**

Students will receive two grades for the homework, one for their written work and one for their oral presentations. For both of these, each problem will be graded on a scale of 0-2, where 2 means a (almost completely) correct solution, 1 means a partially correct solution, and 0 means no solution or an incorrect solution. However, students are not expected to solve every problem. A student may leave up to 20% of the assigned problems blank on their written homework without it affecting their grades. Similarly, a student may “pass” up to 20% of the time they are called upon to present a solution in class without it affecting their grade.

### **Tests**

There will be two tests, a midterm and a final. The midterm will take place approximately the first week of March, and the final will take place May 2 at 1pm.

### **Grades**

Final grades for the course will be computed as follows:

Homework (written)	25%
Homework (oral)	25%
Midterm:	20%
Final:	20%
Class participation:	10%

## **MTHT 490**

Attached to this course is an optional 1 credit hour recitation section which meets Tuesdays 12:30-1:45 in TH 215. This will primarily be led by our TA for the course. All students are encourage to register for this recitation section.

## **DISABILITY ACCOMMODATION**

The University of Illinois at Chicago is committed to maintaining a barrier-free environment so that students with disabilities can fully access programs, courses, services, and activities at UIC. Students with disabilities who require accommodations for access to and/or participation in this course are welcome, but must be registered with the Disability Resource Center (DRC). You may contact DRC at 312-413-2183 (v) or 312-413-0123 (TTY) and consult the following:

[http://www.uic.edu/depts/oa/disability\\_resources/faq/accommodations.html](http://www.uic.edu/depts/oa/disability_resources/faq/accommodations.html).