Abstract Algebra II, Spring 2009

Course: 22M: 121

Instructor: Muthu Krishnamurthy  Office: MLH 1M
Email: muthu-krishnamurthy@uiowa.edu  Phone: 335-0899

Office Hours:

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<tr>
<th>Day</th>
<th>Time</th>
<th>Location</th>
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<tr>
<td>Mon</td>
<td>1.30-3.00 p.m.</td>
<td>MLH 1M</td>
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<tr>
<td>Wed</td>
<td>1.30-3.00 p.m.</td>
<td>MLH 1M</td>
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You can see me outside my office hours by appointment. I will not answer mathematical questions through email.

TA: Tim Gillespie, tlgilles@math.uiowa.edu, Office Hours: TBA


The following texts will be on reserve in the math library. Needless to say, there are plenty of other texts in the math library which you are free to consult.

- William A. Adkins and Steven H. Weintraub, Algebra: An approach Via Module Theory, Springer
- Michael Artin, Algebra (Prentice Hall)
- Fred Goodman, Algebra: Abstract and Concrete (Pearson; available free online)
- I. N. Herstein, Topics in Algebra
- Thomas Hungerford, Algebra (Springer)
- Serge Lang, Algebra (Springer)

Prerequisites: 22M: 120 or consent of the Instructor.

Course Web Site: http://www.math.uiowa.edu/~mkrishna

This site will be updated with your homework assignments, exam schedule, and other useful information as the semester progresses.

Class time and location: MWF, 11.30A-12.20P, 218 MLH

Review session: T, 11.30A-12.20P, 105 MLH (held by the TA)

Homework:

There will be weekly assignments. Homework will be due beginning of class every Friday. Doing problems is the best way to learn the material. You may work in groups but each person should write and submit their solutions separately. Your homework must be legible and the assignment should be stapled. Please try to be precise while writing arguments. Late homework will not be accepted, however I will drop two lowest homework scores while evaluating the final grade.
Course Description: This is a continuation of 22M:120, where Chapters 0 through 9 of Dummit and Foote were covered in Fall 2008. This course will cover the rest, namely, Chapters 10 through 14. The primary goal of the course is to prepare you for the qualifying exams, and to provide the necessary background in algebra to pursue a carrier in mathematics.

Grading: Grading will be based on 40% homework; two midterm exams, and a final exam. Each midterm is worth 15% of the grade, and the final exam is worth 30% of the grade. I will follow plus/minus grading. However, A+ will be awarded only for exceptional performance.

Exams: Each exam will contain at least one problem from the homework with minor modifications. All exams will be closed book. Exam 1 will be held on 03/11/2009 during the regular class period; Exam 2 will be held on 04/08/2009 during the regular class period. The finals is on Thursday, May 14, at 7.30 a.m.

Notes to Students:

- This course is given by the College of Liberal Arts and Sciences (CLAS). This means that class policies on matters such as requirements, grading, and sanctions for academic dishonesty are governed by the CLAS. Students wishing to add or drop this course after the official deadline must receive the approval of the Dean of the CLAS. Details of the university policy of cross enrollments may be found at http://www.uiowa.edu/~provost/deos/crossenroll.doc
- Academic Fraud: Plagiarism and any other activities that result in a student presenting work that is not his or her own are academic fraud. Academic fraud is reported to the departmental DEO and then to the Associate Dean for Academic Programs and Services in the College of Liberal Arts and Sciences. www.clas.uiowa.edu/students/academic_handbook/ix.shtml
- Making a Suggestion or a Complaint: Students have the right to make suggestions or complaints and should first visit with the instructor, then with the course supervisor if appropriate and next with the departmental DEO. All complaints must be made within six months of the incident. www.clas.uiowa.edu/students/academic_handbook/ix.shtml#5
- Accommodations for Disabilities: A student seeking academic accommodations first must register with Student Disability Services and then meet with a SDS counselor who determines eligibility for services. A student approved for accommodations should meet privately with the course instructor to arrange particular accommodations. See www.uiowa.edu/~sds/
- Understanding Sexual Harassment: Sexual harassment subverts the mission of the University and threatens the well-being of students, faculty, and staff. Visit www.sexualharassment.uiowa.edu/ for definitions, assistance, and the full policy.
- Administrative Home of the Course: The administrative home of this course is the College of Liberal Arts and Sciences, which governs academic matters relating to the course such as the add / drop deadlines, the second-grade-only option, issues
concerning academic fraud or academic probation, and how credits are applied for various CLAS requirements. Please keep in mind that different colleges might have different policies. If you have questions about these or other CLAS policies, visit your academic advisor or 120 Schaeffer Hall and speak with the staff. The CLAS Academic Handbook is another useful source of information on CLAS academic policy: www.clas.uiowa.edu/students/academic_handbook/index.shtml

- **Department Contact:** The department of mathematics has offices in 14 MLH. To make an appointment to speak with the chair of the department, call 335-0714 or contact the department secretary in 14 MLH.

- The information in this syllabus may be subject to changes. Such changes will be posted on the web page and will be announced in class. Students are required to keep track of such changes.