

# Spring Semester 2008

## Math 254H

Time : Mon, Wed, Fri.: 12:40pm - 1:30pm  
Place : C215 Wells Hall.  
Text Book : **Abstract Algebra by Dummit and Foote**  
Instructor : Manish Kumar  
Office : A321 Wells Hall. Tel. 517 432 1619.  
Email : [mkumar@math.msu.edu](mailto:mkumar@math.msu.edu)  
Office hours : Mon 3:00-4:00, Thr 2:00-3:00 and by appointment.

Course webpage: <http://www.math.msu.edu/~mkumar/teaching.html>

### Important dates

Monday - 08/25/08 - Classes Begin

Friday - 08/29/08 - Online open add period for Fall ends at 8pm.

Monday - 09/01/08 - Labor Day - University closed

Tuesday 09/02/08 to Friday 09/05/08 - Students go to Undergraduate office, A212 Wells Hall for Mathematics enrollment changes. (late adds, drop to lower course, section changes)

Friday - 09/05/08 - Last day to late add a course or change sections within a course. Last day to drop to a lower level course.

Thursday - 09/18/08 - End of Tuition Refund

Tuesday - 10/14/08 - Middle of Semester, Last day to drop a course without a grade being reported.

Thursday 11/27/08 to Friday 11/28/08 – Thanksgiving Break

### Tentative dates for the Exams:

Midterm 1: Last week of September (100 Points).

Midterm 2: 1<sup>st</sup> week of November, (100 Points).

FINAL EXAM: Immediately after the Last week of classes (200 Points).

### Homework:

Weekly homeworks will be assigned. Each homework will be worth 10 points. There may be a quiz once in a while worth 10 points.

No late homeworks will be accepted.

## Final grade:

The Maximum you can score is 550-570 (2 midterm tests worth 100 each, 200 for the final exam and 150-170 for the quizzes and the homeworks).

Cutoffs for the final grade will be the following:

4.0 - 90%

3.5 - 84%

3.0 - 78%

2.5 - 70%

2.0 - 62%

1.5 - 54%

1.0 - 45%

This means, in particular, you are assured of a '3.5' if your score is between 84% and 90%. But you may get a higher grade.

## NOTE:

The University policy concerning academic integrity is covered in the Spartan Life Student Handbook and Resource Guide, General Rules and Regulations. According to the handbook:

“No student shall claim or submit the work of another as one’s own”

## Contents of the Course:

Group theory (Definition, basic properties, morphisms, quotients, group actions, Lagrange's theorem, Caley's theorem, Sylow's theorem, Finite groups).

Rings (Definition, basic properties, morphisms, Ideals, quotients, ring of fractions, Euclidean domains, PIDs, UFDs).

Field extensions, Galois Theory (may be)