18.786 Algebraic Number Theory Spring 2008

This course is an introductory graduate-level course in Algebraic Number Theory.

Text: Algebraic Number Fields (2nd ed.), G. Janusz, American Mathematical Society.

Website: www-math.mit.edu/~mahlburg/teaching/08-18786.html

The course website will contain the most up-to-date information about reading, homework assignments, and schedules. Please check it frequently!

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Schedule:

Lectures	TR 1:00	Room 2-102
Office Hours	W 1:30 (or appointment)	Room 2-172

Grading:

- Homework assignments are due on **Thursdays** at the beginning of class (1:00). You are encouraged to work in groups, but you must write up your own solutions. Some of the homeworks will have a heavy computational component, and you must learn how to use SAGE (or equivalent).
- Exams are take-home and open-everything (notes, books, problem sets, internet, etc.). However, you may **not** consult with any other person while you are working.
- You are expected to complete an independent Reading Project before the end of the term. The goal is for you to pick a course topic that you are interested in and learn enough about it to write a 5–8 page summary/survey. If the topic you pick involves computation, you can write some code and use that for your paper.

Grading Summary	Date	Points
10 Problem Sets	Due on most Thursdays	40 %
Reading Project	Due end of term	10 %
Midterm	Approx. Mar. $18^{\rm th}$	20 %
Final Exam	Approx. May 22^{th}	30~%