

MAST 693 (MAST 833B)
Algebraic Number Theory
Fall 2016

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Office Hours: TBA

References: To be assigned (D. Marcus, Algebraic Number Fields among others).

Final Grade:

There will be a Mid-term exam	30%
Final	60%
Assignments	10%

Content: Topics to be covered:

- Dedekind domains;
- ideal class groups; ramification;
- discriminant and different;
- Dirichlet unit theorem;
- decomposition of primes;
- Galois theory applied to prime decomposition;
- cyclotomic fields;
- local fields (if time permits).