Math 784, Algebraic Number Theory
Spring 2008.

Instructor: Matthew Boylan.
Office: LeConte 400G.
Phone: 777-8874.
E-mail: boylan@math.sc.edu
Office hours: Tues, 11 - 12, Thurs., 11 - 12, and by appointment.

• Course Webpage:
  http://www.math.sc.edu/~boylan/SCCourses/math784/784.html


• Course content: This course is an introduction to algebraic number theory, a beautiful theory that serves as the foundation for much of modern number theory. Topics will include rings of integers, Dedekind domains, factorization of prime ideals, finiteness of the class number, Dirichlet’s unit theorem, and selected topics from class field theory, time permitting.

• Class schedule: TuTh 2:00 - 3:15 LeConte 121.

• Exam schedule:
  Midterm Exam : Tuesday, March 4 2:00 - 3:15 LeConte 121
  Final Exam : Thursday, May 8 2:00 - 4:00 LeConte 121

• Homework: 6-8 homework assignments will be given.

• Grading: (tentative)
  Homework : 60%
  Midterm Exam : 20%
  Final Exam : 20%

• Collaboration: Collaboration is allowed and encouraged on the homework. However, you must write and understand your own homework solutions; you may not share written solutions. If you solve a problem by talking to a classmate or looking it up in a book, you should cite the source in your homework write-up.

• Please do not hesitate to contact me at any time if you have questions or problems relating to this course. I will make adjustments if it is brought to my attention that I am going too fast or too slow, that the course is too easy or too hard, etc. Best wishes for an enjoyable and productive semester!