Instructor: Tom Tucker.

Text: Janusz, *Algebraic Number Fields*.

Prerequisites: A basic understanding of commutative algebra (commutative rings, ideals, prime ideals, localization) and Galois theory.

The course will cover: The theory of rings of integers in number fields. The main goals in this course are to prove the Minkowski theorem on the finiteness of the class group and the Dirichlet unit theorem.

Homework: There will be weekly homework assignments.

Grading: The grades will be determined as follows: 70% of the grade will come from your homework, 30% will come from an oral exam given at the end of the semester. There will be no written exams.

Office hours: Mondays 2-3:30, Wednesdays 1-2.