

Math 595 - Section IMF - An Introduction to Modular Forms  
Course Syllabus

**Course Location**

MWF 11:00-11:50 Room 441, Altgeld Hall.

**Contact information**

Name: Jeremy Rouse

E-mail: [jarouse@math.uiuc.edu](mailto:jarouse@math.uiuc.edu)

Office: Room 301, Altgeld Hall.

Office Phone: (217) 333-3504.

Office Hours: Wednesday, 2-3 pm, and by appointment.

**Course Information**

This course will consist of an introduction to the theory of modular forms, including examples and connections to other interesting subjects. I plan to begin with reasonably thorough coverage of modular forms for the full modular group, and then discuss congruences subgroups, Hecke operators, and further topics based on student interest.

Website: <http://www.math.uiuc.edu/~jarouse/teaching/S2009/m595/>

Textbook: I intend to refer to a number of texts, but the main one will be A First Course in Modular Forms, Diamond and Shurman, Springer GTM 228. ISBN: 0-387-23229-X.

**Homework and Grades**

Homework will be assigned and collected every two weeks. Each homework assignment will consist of two quite challenging problems. The grade distribution at the end of the course will be determined by the scores on the homework. My intention is that students who solve at least half of the assigned problems will get an A.