In this course we will discuss fundamental topics of graph theory including trees, connectivity, planar graphs, hamiltonicity, and colorings. There will be a heavy emphasis on learning and creating proofs. 598 version of the course is a preparation for half of the qualifier in discrete mathematics. Students in the 598 version are expected to perform at a higher level than 416 students.

**Books:**


**Homework and Quizzes:** We will have regular homework assignments.

**Tests:** We will have a midterm test.


**Final:** The date of the final is May 04, 12:20-2:10.

**Grade:** I will put heavy emphasis on the final exam when computing your grade. Approximately 30% of the grade will come form homework, 20% from the midterm, and 50% from the final.