Syllabus – MATH 776
Prof. Joshua Cooper, Fall 2009

Email: cooper@math.sc.edu
Office: LeConte πD
Homepage: http://math.sc.edu/~cooper
Course Homepage: http://math.sc.edu/~cooper/math776f09/
Main Text: Diestel, Graph Theory.
Supplementary Reading: Alon & Spencer, The Probabilistic Method; Bollobas, Extremal Graph Theory.
Class: Monday, Wednesday & Friday 2:30PM – 3:20PM, LeConte (LC) 310
Office Hours: Monday 3:30PM – 4:30PM or by appointment.
Learning Outcomes: Fundamentals of graph theory. Cycles, paths, trees, graph invariants, connectivity, matchings, planarity, coloring, flows, hamiltonicity, regularity, minors, extremal graphs, Ramsey Theory. The pace of material (and therefore how much we cover) will be determined on-line.

Note: The last day to drop classes without incurring a “W” is 8/26, and the last day to drop classes without incurring a “WF” is 10/1.

ADA: If you have special needs as addressed by the Americans with Disabilities Act and need any assistance please notify me immediately.

Attendance: You are expected to attend every class. If you have to leave before class is over, the correct procedure is to mention this to me before class. It is impolite and disruptive to leave class during a lecture unless you have followed this procedure.

Grade Breakdown: 60% from Problem Sets, 40% from Final Exam.

Grading scale: $A \in [90, 100)$, $B+ \in [86, 90)$, $B \in [80, 86)$, $C+ \in [76, 80)$, $C \in [70, 76)$, $D+ \in [66, 70)$, $D \in [60, 66)$, $F \in [0, 60)$.

Problem Sets: Problem sets will be assigned periodically (generally at the start of a new chapter), announced, and posted on the website. Problem sets are due by the expiration date on the posted problem set and will not be accepted after that point. You are generally expected to provide complete, rigorous solutions in order to receive credit. Solution sets written in \LaTeX will receive 5 bonus points.

Final Exam: The content of the exams will be drawn from lectures and from the text. Keep in mind that you are responsible for all material covered in class, even if it does not appear in Diestel. The final exam will be held on Thursday, December 10 at 2:00 p.m.