Office Hours: MWF 9.00am-10.00am or by appointment.

We will be studying Ramsey theory on the integers. Ramsey theory is most often associated with graphs, but we will not be going in that direction. You will find this class challenging at times, but hopefully also very interesting, and perhaps fun.

The Book: We will be using the book Ramsey Theory on the Integers, by Landman and Robertson. I hope to cover chapters 1–3, 8–10.

Homework: Homework will be assigned and collected six times throughout the semester. The assignments are on the bottom of this page so don’t lose this sheet. Each question is worth 5 points. I will drop the lowest homework grade.

Testing: There will be a midterm and a “final.” Both will be given as self-scheduled (i.e., timed take-home) exams. The midterm will be over the material from chapters 1–3. The “final” will be over the material from chapters 8–10.

Late work: Late homework will not be accepted. Because of this policy, I will not count your lowest homework grade.

Grading: Homework: 30 % Midterm: 35 % each Final: 35 %

Homework Problems

CHAPTER 1 #1.1, 1.2, 1.4, 1.5, 1.6
CHAPTER 2 #2.1, 2.2, 2.4, 2.5, 2.8
CHAPTER 3 #3.1, 3.2, 3.5, 3.7, 3.11
CHAPTER 8 #8.2, 8.4, 8.6, 8.7, 8.9
CHAPTER 9 #9.1, 9.2, 9.7, 9.4, 9.15
CHAPTER 10 #10.1, 10.2, 10.3, 10.5, 10.8