

MATH 410: RAMSEY THEORY

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Ramsey theory is the study of properties that must occur for sufficiently large structures. We can try to break the structure through partitioning, but a Ramsey property will persist. You will find this class challenging at times, but hopefully also very interesting, and, dare I say, fun.

The Book: We will be using the book *Fundamentals of Ramsey Theory*, by Robertson. I hope to cover most of the material in the book.

Homework: Homework will be assigned and collected weekly.

I will drop the lowest two homework grades. In return, late homework is not accepted.

Testing: There will be a midterm and a final. Both will be given as take-home exams. The midterm will be due March 11 at the start of class (the day before Spring Break starts). The final exam will be due May 13 at noon (the last day of Finals Week).

Office Hours: Tuesdays and Thursdays, 8:45am to 9:45am; and by appointment.

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