MATH 230 Discussion Syllabus

Discussion Time and Place: Depends on your section

Office Hours: 11:30-12:30 Tuesday or 10:30-12:30 Thursday at Ewing 108

Grade Breakdown: Discussion quizzes 10%, discussion attendance 2%, lecture attendance 3%, WebAssign homework 15%, paper & Canvas homework 10%, midterms 30%, final 30%

Discussion info: New worksheet every week. Come to discussion, try the worksheet, and I'll go over solutions. Quizzes are the last 20 minutes of discussion, closed note, and happen on weeks 3, 5, 7, 9, ... Contact me for quiz make-ups. The week after every quiz, I go over common mistakes and how students lost points so that people know how to improve.

General remarks: All info applies to all sections unless otherwise mentioned. No extra credit planned. Discussion worksheets, quizzes, and review material on Canvas in the files section. Worksheets posted in advance, quizzes after 1 week, exams TBD. Disability accommodations, exam & lecture quiz makeups, and begging for extra credit is handled by the instructor. Email me about discussion quiz makeups or grade concerns.

Math discussion **feedback form** **link**. Form open all semester, is anonymous, and only has one question.

Week of **8/26-8/30:** Algebra review
Week of **9/2-9/6:** Sets and set operations
Week of **9/9-9/13:** Counting, set cardinality, multiplication principle
Week of **9/16-9/20:** Permutations, combinations, circular permutations, intro to probability
Week of **9/13-9/27:** Counting techniques, practice problems, and parlor tricks
Week of **9/30-10/4:** Bayes' Theorem
Week of **10/7-10/11:** Systems of linear equations, (unique, under-, over-) determined solutions
Week of **10/14-10/18:** Intro to matrices, matrix multiplication
Week of **10/21-10/25:** Inverse of a square matrix, graphing systems of linear equations
Week of **10/28-11/1:** Linear Programming problems.
Week of **11/4-11/8:** Sensitivity analysis, distribution of random variables
Week of **11/11-11/15:** Expected value, binomial distribution.
Week of **11/18-11/22:** Markov chains, regular MCs
Week of **11/25-11/29:** Thanksgiving break
Week of **12/2-12/6:** Absorbing Markov chains, game theory.
Week of **12/9-12/13:** Exam review and final exam