

Introduction to Counting and Probability Syllabus

Instructor: Ethan Xiao

Weekly Classes on Sundays, 7:00-8:00 PM EST

Course Description

This is a 10-week introductory course to counting and probability. If you want to participate and learn from this class, we recommend that you purchase the Art of Problem Solving Introduction to Counting and Probability textbook.

Meeting Agenda

4/25 Meeting 1: Counting and basic counting techniques

5/2 Meeting 2: Correcting for overcounting

5/9 Meeting 3: Combinations

5/16 Meeting 4: Probability and basic probability techniques

5/23 Meeting 5: Review session

5/30 Meeting 6: Geometric probability

6/6 Meeting 7: Expected value

6/13 Meeting 8: Pascal's Triangle

6/20 Meeting 9: Hockey Stick Identity

6/27 Meeting 10: Binomial Theorem