

Math 168 - Weekly Schedule

Textbook: Finite Mathematics, 12th Edition, by Tan

Note: This is a fall or spring schedule. In summer, this schedule is accelerated by a factor of 3 in order to accommodate a 5-week session.

- Week 1
 - o Sections 1.3, 1.4
 - Topics covered: Linear Functions and Mathematical Models, Intersection of Straight Lines
- Week 2
 - o Sections 2.1, 2.2*, 2.3**
 - Topics covered: Systems of Linear Equations
 - *Demonstrate Gauss-Jordan elimination for a small system of linear equations. Students are responsible for pivoting about an element, but not the whole Gauss-Jordan process. Students will use rref to solve systems.
 - **Students will use rref to solve all systems in this section.
- Week 3
 - o Sections 2.4, 2.5, 3.1
 - Topics covered: Matrix Arithmetic, Matrix Multiplication, Graphing Systems of Linear Inequalities
- Week 4
 - o Review, Exam 1 (1.3, 1.4, 2.1-2.5, 3.1)
- Week 5
 - o Sections 3.2, 3.3, 6.1
 - Topics covered: Setting up Linear Programming Problems, Solving Linear Programming Problems, Sets
- Week 6
 - o Sections 6.1, 6.2, 6.3, 6.4
 - Topics covered: Sets, Counting, Multiplication Principle, Permutations
- Week 7
 - o Section 6.3, 6.4, 7.1
 - Topics covered: Multiplication Principle, Permutations, Combinations, Experiments, Sample Spaces, and Events
- Week 8
 - o Review, Exam 2 (3.2, 3.3, 6.1-6.4, 7.1)
- Week 9
 - o Sections 7.2, 7.3, 7.4
 - Topics covered: Definition and Rules of Probability, Counting Techniques in Probability
- Week 10
 - o Sections 7.5, 7.6
 - Topics covered: Conditional Probability, Independence, Bayes' Theorem
- Week 11
 - o Sections 8.1, 8.2, 8.3
 - Topics covered: Distributions of Random Variables, Expected Value, Variance, Standard Deviation (Chebychev's optional)
- Week 12
 - o 8.4, Review, Exam 3 (7.2-7.6, 8.1-8.4)
 - Topics covered: Binomial Distribution
- Week 13
 - o Sections 8.5, 8.6, 5.1
 - Topics covered: Normal Distribution (excluding normal curve approximation of binomial distribution), Finance
- Week 14
 - o Sections 5.2, 5.3
 - Topics covered: Finance
- Week 15
 - o Sections 5.2, 5.3
 - Topics covered: Finance
- Week 16/17
 - o Review for Final, Final Examinations