

Monday	Wednesday	Friday
Lecture 1: 10/23 Optimization and the knapsack problem PS 1 Out	Lecture 2: 10/25 Dynamic Programming	
Lecture 3: 10/30 Graphs Shortest path problems DFS and BFS PS 2 Out FE 1 due	Lecture 4: 11/1 Stochastic thinking Probability Micro quiz 1 PS 1 due	
Lecture 5: 11/6 Random walks FE 2 due	Lecture 6: 11/8 Monte Carlo methods Roulette, pi PS 2 due PS 3 out	Veteran's Day holiday
Lecture 7: 11/13 Variance, and standard deviation Confidence intervals Normal distributions PS 1 Checkoff due FE 3 due PS 4 out	Lecture 8: 11/15 CLT Sampling Standard error Micro quiz 2 PS 3 due	
Lecture 9: 11/20 Curve fitting Linear regression R^2 , Overfitting PS 2 Checkoff due FE 4 due	No class: 11/22 PS 4 due	Thanksgiving break

PS 5 out		
Lecture 10: 11/27 Choosing a degree Training and test sets Intro to ML Distance metrics PS3 Checkoff due	Lecture 11: 11/29 K-means clustering Scaling of features Micro quiz 3	
Lecture 12: 12/4 Classification KNN Logistic regression PS 4 Checkoff due FE 5 due PS 5 due	Lecture 13: 12/6 ROC Interpreting regression weights	12/8 PS5 checkoff due
Lecture 14: 12/11 Statistical fallacies Wrap up	Lecture 15: 12/13 Exam review	
		Thursday 12/21: Final exam