

## **Review Checklist for Quiz #2**

All material for the topics below covered until 11/7 are fair game.

### **Probability**

- Conditional Probabilities
- Probability Distributions
- Join Probability Distributions
- Marginalization
- Normalization
- Independence

### **Bayesian Networks**

- Bayes' Theorem
- Conditional Independence
- Bayesian Network Structure
- Causality
- Inference
- Bayesian Network Inference
- Sampling

### **Reasoning Over Time**

- Markov Models
- Hidden Markov Models

### **Learning From Data**

- Components of Learning
- Binary Classification
- Multi-Class Classification
- Supervised Learning
- Unsupervised Learning

### **Learning Algorithms**

- K-Means
- PCA
- Naïve Bayes