Basic concepts
Understand basic concepts such as maximum margin classifier, reinforcement learning, differences between supervised learning and reinforcement learning, and advantages of graphical models.

Bayesian networks
Understand the three basic building blocks of Bayesian networks and what conditional independence relations they represent; know how to read independence relations using the Bayes ball algorithm or the Markov assumption.

Variable elimination
Know how to calculate (conditional) probability in Bayesian networks using variable elimination.

Expectation maximization
Understand the expectation maximization algorithm; can apply the algorithm to solve parameter learning problems involving missing values.

Reinforcement learning
Understand what a Markov Decision Process (MDP) is and how to solve MDPs using policy iteration and value iteration.