CSCI 724, Jen Li:

Book: Artificial Intelligence: A Modern Approach, 3rd Edition (or 2nd, 4th Editions)

Chapters:

1 Introduction

2 Intelligent Agents

3 Solving Problems by Searching

4 Beyond Classical Search

5 Adversarial Search (partial)

      5.1 Games

      5.2 Optimal Decisions in Games

      5.3 Alpha-Beta Pruning

      5.4 Imperfect Real-Time Decisions

7 Logical Agents

8 First-Order Logic

9 Inference in First-Order Logic

12 Knowledge Representation (partial)

      12.1 Ontological Engineering

      12.2 Categories and Objects

13 Quantifying Uncertainty

14 Probabilistic Reasoning

      14.1 Representing Knowledge in an Uncertain Domain

      14.2 The Semantics of Bayesian Networks

      14.3 Efficient Representation of Conditional Distributions

Extra: Logic programming