

Chapter 2 Intelligent Agents (and corresponding lecture slides):

- Section 2.1: understand the nomenclature and concepts.
- Section 2.2: understand the nomenclature and concepts.
- Section 2.3: understand the nomenclature and concepts. Be comfortable with the PEAS description and environment properties. Expect similar problem(s) as the one in Written Assignment #01. Your justifications will need to be solid.
- Section 2.4: understand the differences between different agent types and how they affect your design choices. You may be asked to pick the best agent type for some problem and justify your answer.
- Go through the chapter summary.

Chapter 3 Solving Problems by Search (and corresponding lecture slides):

- Section 3.1: understand the nomenclature and concepts. Be comfortable with defining a search problem.
- Section 3.2: go through examples to solidify your understanding of search problem design.
- Section 3.3: understand the nomenclature and concepts.
- Section 3.4: understand the nomenclature and concepts / algorithms. Ignore sections 3.4.4 and 3.4.5 for the exam.
- Section 3.5: understand the nomenclature and concepts / algorithms. Go through the examples. You might be asked to solve a search problem by hand. Ignore sections 3.5.3, 3.5.4, 3.5.5, and 3.5.6 for the exam.
- Section 3.6: review the introduction to this section.
- Go through the chapter summary.

Chapter 5 Adversarial Search and Games (and corresponding lecture slides):

- Section 5.1: understand the nomenclature and concepts.
- Section 5.2: understand the nomenclature and concepts. You may be asked to solve an adversarial problem by hand using Min-Max and alpha-beta pruning. Ignore section 5.2.2.
- Go through the chapter summary.

Chapter 6 Constraint Satisfaction Problems (and corresponding lecture slides):

- Section 6.1: understand the nomenclature and concepts. You may be asked to formally define a constraint satisfaction problem.
- Section 6.2: understand the nomenclature and concepts. You may be asked to apply techniques from this chapter. Ignore sections 6.2.4 and 6.2.5.
- Section 6.3: understand the nomenclature and concepts. You may be asked to apply techniques from this chapter. Ignore sections 6.3.3 and 6.3.4.
- Go through the chapter summary.

Chapter 7 Logical Agents (and corresponding lecture slides):

- Section 7.1: understand the nomenclature and concepts.
- Section 7.2: Go through the example provided.
- Section 7.3: understand the nomenclature and concepts.
- Section 7.4: understand the nomenclature and syntax of propositional logic. You may be asked to apply techniques from this chapter (simplification, evaluation, deduction, truth tables, etc.).
- Section 7.5: understand the nomenclature and inference / theorem proving in propositional logic. You may be asked to apply inference rules to some problem (including conversion to the CNF form).
- Go through the chapter summary.