## CSE 537 COURSE SYLLABUS

	CONTENT	CHAPTER ON TEXT BOOK
1	Introduction & Intelligent Agents	Chapter 1, 2
		- 1 /
2	Problem Solving as Search	Chapter 3 (3.1 ~ 3.5)
	Problem Spaces	- 1 /
	Uninformed Search	
	Iterative Deepening Search	
3	Heuristic Search	Chapter 3 (3.6)
	Best-first Search	1 /
	A* Search	
4	Constraint Satisfaction	Chapter 5 (5.1 ~ 5.3)
	Game Playing	Chapter 6 $(6.1 \sim 6.3)$
	Alpha-beta Pruning	·
5	Knowledge Representation	Chapter 7
	Propositional Logic	Chapter 8
	First-Order Logic	-
6	Logical Reasoning	Chapter 9
	Deductive Inference	-
	Unification	
	Forward and Backward chaining	
	Resolution	
7	Reasoning under Uncertainty	Chapter 13
8	Bayesian Networks	Chapter 14
9	Machine Learning –	Chapter 18 (18.1 ~ 18.3)
	Inductive Inference	
	Decision Trees	
10	Statistical Learning-	Chapter 18(18.7, 18.9)
	Neural Networks	
	Perceptrons	
	Back Propagation	
	Support Vector Machines	
11	Temporal Reasoning & application to Speech	Chapter15 (15.1)
	Recognition	
12	Planning	Chapter 11

## **GRADING**

There will be midterm, final and 4 projects. Final will include all topics.

The final grade will be based on the following weights:

Midterm: 35% Final: 45% Projects: 20%