EECS 492: Artificial Intelligence

	topic	read before class	homework
9/7	What is AI?	chapter 1 (29p)	
9/9	Agents and environments	chapter 2 (22p)	2.3, 2.5
9/14	State spaces and search	chapter 3 (45p)	3.1, 3.6
9/16	Beyond classical search	chapter 4 (34p)	4.1
9/21	Constraint satisfaction	chapter 6 (19p)	6.4
9/23	Logical agents	7.1-7.5 (26p)	7.5, 7.10
9/28	Propositional inference	7.7, 7.8, 8.1 (13p)	7.13
9/30	First-order logic	8.2, 8.3, 8.4, 8.5 (22p)	8.10, 8.1
10/5	First-order inference	9.1-9.4, 9.6 (+p.352) (23p)	9.4, 9.6
10/7	Planning	10.1-10.3 (21p)	10.3
10/12	Planning and resources	10.4-11.1 (19p)	10.12, 10.13
10/14	Hierarchy and non-determinism	11.2-11.5 (26p)	11.6
10/21	Representing knowledge	chapter 12 (27p)	12.7, 12.16
10/26	Uncertainty	chapter 13 (25p)	13.8, 13.13
10/28	Bayesian networks	14.1-14.4 (19p)	14.1
11/2	**Mid-term exam**	covers chapter 1-12	
11/4	Inference in Bayesian networks	14.5-14.8 (17p)	14.2
11/9	Decision analysis	chapter 16 (24p)	16.3
11/11	Markov Decision Processes	17.1-17.4, 17.7 (19p)	17.9
11/16	Reinforcement learning	chapter 21 (22p)	21.8
11/18	Learning decision trees	18.1-18.3 (15p)	18.6
11/23	Linear regression & classification	18.4, 18.6 (16p)	18.11
11/30	SVMs & ensemble methods	18.9-18.12 (14p)	18.17
12/2	Explanation-based learning	19.1-19.3 (16p)	
12/7	Inductive Logic Programming	19.4-19.6 (14p)	19.7
12/9	Is AI possible? If so, what then?	chapter 26, 27 (25p)	26.6, 26.10

12/21 **Final Exam** (10:30 am - 12:30 pm)