

Introduction to AI - Probabilistic Reasoning (Summer 2022)

Day	Time (all time/dates are China time) https://www.thetimezoneconverter.com/		Topic	Reading	Homework (release and due dates are tentative)
1	7/4 Monday	14:00 pm - 16:35 pm	Course overview / review of probability	Poole and Mackworth 8.1.1-8.1.3	
2	7/5 Tuesday	14:00 pm - 16:35 pm	More reviews of probability / start of examples for reasoning with uncertainty	Poole And Mackworth 8.2	HW1 out
3	7/7 Thursday	14:00 pm - 16:35 pm	reasoning with uncertainty cont' / Belief networks (from probabilities to graphs)	Poole and Mackworth 8.3, 8.4.2	
4	7/11 Monday	14:00 pm - 16:35 pm	Conditional independence / Intro to d-separation	Poole and Mackworth 8.4, 10.1.1	HW1 due
5	7/12 Tuesday	14:00 pm - 16:35 pm	d-separation exercises / variable elimination intro	Poole and Mackworth 10.1.2, 8.5.1	HW2 out
6	7/14 Thursday	14:00 pm - 16:35 pm	More about variable elimination / MLE learning	Poole and Mackworth 10.2.2	
7	7/18 Monday	14:00 pm - 16:35 pm	Naive Bayes and Markov Model	No reading	HW2 due
8	7/19 Tuesday	14:00 pm - 16:35 pm	Latent variable models, EM algorithm	Poole and Mackworth 8.5.2	HW3 out
9	7/21 Thursday	14:00 pm - 16:35 pm	Examples of EM algorithm	Poole and Mackworth 9.5	
10	7/25 Monday	14:00 pm - 16:35 pm	Estimating Noisy-OR parameters with EM	No reading	HW3 due
11	7/26 Tuesday	14:00 pm - 16:35 pm	Other AI topics (HMM or Q-learning)	No reading	
12	7/28 Thursday	14:00 pm - 16:35 pm	Final Exam (live open book open notes exam)		