

Syllabus for Quiz 2 (to be held on Nov 5)

Sources

- Russell & Norvig's textbook (AIMA)
- Slides available in the AIMA book website
- Slides posted via Google classroom

Syllabus

Ch.	Subject	Topics/Skills required
13	Quantifying Uncertainty	<ul style="list-style-type: none">• Understanding basic notions of probability, conditional probability, independence, full joint distribution, Bayes' rule
14	Probabilistic Reasoning	<ul style="list-style-type: none">• Understanding conditional independence• Understanding the basic principle of Bayesian Networks• Ability to make inference given the topology and conditional probability tables of a given Bayesian network
15	Temporal Reasoning	<ul style="list-style-type: none">• Understanding the basic principles of a Markov process• Ability to perform basic calculations given the transition table of a Markov process• Understanding the basic principles of a Hidden Markov Model (HMM)• Ability to make inference given the transition and emission probabilities of a Hidden Markov Model
16, 17	Decision Making	<ul style="list-style-type: none">• Understanding basic notions of Utility, Lottery, Maximum Expected Utility and rational decision-making• Understanding the basic principle of a Markov Decision Process (MDP)