

# COSC343 Course Outline

Week	Lecture	Topic	Lab/Tutorial (one per week)
1	1	Introduction	Intro/LEGO
	2	Robotics and Embodied AI	
2	3	Learning	Learning/Decision Trees
	4	Decision Trees	
3	5	Perceptrons	Perceptrons
	6	Optimisation	
4	7	Regression	Regression and neural networks
	8	Artificial neural networks	
5	9	Recurrent neural networks	Neural networks
	10	Deep learning: convolutional neural networks	
6	11	Genetic algorithms	Convolutional neural networks/genetic algorithms
	12	Unsupervised learning	
7	13	Deep learning: auto-encoders	Unsupervised learning
	14	Uncertainty	
8	15	Bayesian reasoning	Uncertainty
	16	Bayesian networks	
9	17	Problem solving and search	Uniformed search/informed search
	18	Informed search	
10	19	Adversarial search	Adversarial search/intro to natural language
	20	Introduction to natural language	
11	21	Natural language syntax I	Introduction to syntax
	22	Natural language syntax II	
12	23	Statistical language modelling	Statistical language models
	24	Statistical grammars	
13	25	Revision/The ethics of AI	Revision