

Lecture Schedule (subject to change. Last updated February 26, 2021)

[Classes run](#) from January 11 – April 16

Week	Dates	Readings
Introduction		
1	January 11, 13, 15	Introduction (Ch. 1). Omit 1.3.
2	January 18, 20, 22	Intelligent Agents (Ch.2). Single-Agent Rational Choice (Ch.16.1, 16.5). Overheads.
One-Shot Decision-Making		
3	January 25, 27, 29	Multiple Agents; Game Theory (3 rd ed: Ch. 17.5.1, 4 th ed: 18.2.1-2).
4	February 1, 3, 5	Multiple Agents ctd. (Nondeterministic Agents.)
5	February 8, 10, 12	Single Agent: Local Search. (Ch.4). Both editions: 4.1.1, 4.2
5	February 12	Assignment 1 due. On Ch.1, 2, Game Theory.
Sequential Decision-Making		
	February 15, 17, 19	Reading Week
6	February 22, 24, 26	Single Agent: Search-and-solve. (Ch.3). 3 rd ed: <u>Omit</u> : 3.4.2, 3.4.6, 3.5.3, 3.5.4., 3.6.3. 4 th ed: <u>Omit</u> : 3.4.2, 3.4.5, 3.5.5. 3.5.6, 3.5.4., 3.6.3.
7	March 1, 3, 5	Multiple Agents, Adversarial Search, Game Playing. 3 rd ed: Ch.17.5.2, Ch.5. <u>Omit</u> 5.4.3, 5.6. 4 th ed: Ch. 18.2.3. <u>Omit</u> 5.3.3, 5.4, 5.5, 5.6
8	March 8	Assignment 2 due
Learning		
8	March 8, 10, 12	Decision Trees. 3 rd ed: 18.3.1-18.3.5. 4 th ed: 19.1, 19.2.1, 19.3, 19.3.4
9	March 15, 17, 19	Artificial Neural networks. 3 rd ed: 18.7 4 th ed: 21.1
Knowledge Representation and Reasoning: Probability		
10	March 22, 24, 26	Features for Natural Language Processing. 3 rd ed.: Ch. 22.1-2. 4 th ed: 23.1.1-4 Uncertainty. 3 rd ed.: Ch.13. Omit 13.6. 4 th ed.: 12.1-12.4
10	March 29	Assignment 3 due. On learning, NLP
11	March 29, 31	Probabilistic Reasoning and Bayesian Networks 3 rd ed: (Ch.14). <u>Omit</u> 14.3, 14.4, 14.5, 14.7. Section 14.6 is optional. 4 th ed: 13.1, 13.2 (Omit “compactness and node ordering”).

Learning To Act		
12	April 7, 9	Markov Decision Processes. Ch. 17 3 rd ed: 17.1-17.3 4 th ed: 17.1, (omit 17.1.3), 17.2.1, 17.2.2.
13	April 12, 14, 16	Reinforcement Learning. Final Exam Review.
13	April 16	Assignment 4 due
Summer term	May 10 1:30pm -2:30 pm PST	Review session (exams, assignments)

Final Exam: W April 28 8:30AM - 11:30AM