| Week number | Class number | Day | Date | General topic (schedule is tentative) | Specific topic | Required reading | Work due and exams |
|---|---|---|---|---|---|---|---|
| 1 | 1 | Tue | 8/28 | intro + classical search | elementary search algorithms | -- | |
| | 2 | Thu | 8/30 | philosophy and ethics | can machines think? | Turing1950 + 1.1,1.2,1.4 | |
| 2 | 3 | Tue | 9/4 | classical search (Ch 3) | uninformed search | 3.1-3.4 | |
| | 4 | Thu | 9/6 | | informed search basics | 3.5 | |
| 3 | 5 | Tue | 9/11 | | -- | | |
| | 6 | Thu | 9/13 | | -- | | ~~PA1~~ |
| 4 | 7 | Tue | 9/18 | | heuristics for informed search | 3.6 | |
| | 8 | Thu | 9/20 | | [exam] | -- | E1 |
| 5 | 9 | Tue | 9/25 | adversarial search (Ch 5) | minimax | 5.1-5.2 | PA1 |
| | 10 | Thu | 9/27 | | alpha-beta search | 5.3 | |
| 6 | 11 | Tue | 10/2 | | search cutoff; stochastic games | 5.4.0-5.4.2, 5.5, 5.7 | |
| | 12 | Thu | 10/4 | other search techniques (Ch 4) | local search; search with non-determinism; partial observations | 4.1.0, 4.1.1, 4.1.4 4.3.0-2, 4.4.0-1 | ~~PA2~~ |
| 7 | 13 | Tue | 10/9 | philosophy and ethics | contemplating real AI | (movie in class) | PP0 |
| | 14 | Thu | 10/11 | knowledge representation and reasoning (Ch 7,8,9) | propositional logic | 7.0-7.5.2, 7.7.0-7.7.1 | ~~PP1~~ PA2 |
| 8 | | Tue | 10/16 | | [mid-term pause] | -- | |
| | 15 | Thu | 10/18 | | [exam] | -- | E2 |
| 9 | 16 | Tue | 10/23 | | resolution | 7.5.2 | |
| | 17 | Thu | 10/25 | | first order logic | 8.1-8.5 | |
| 10 | 18 | Tue | 10/30 | [cancelled due to storm] | | | ~~PA3~~ |
| | 19 | Thu | 11/1 | knowledge rep. continued | inference in first order logic | 9.1, 9.2.1 | PA3 |
| 11 | 20 | Tue | 11/6 | paper presentations | [PP2 presentations] | -- | PP2 |
| | 21 | Thu | 11/8 | | [PP2 presentations] | -- | |
| 12 | 22 | Tue | 11/13 | probabilistic reasoning and machine learning (Ch 13, 14, 18, 21) | nearest neighbors + decision trees | 18.1-18.4, 18.8.1 + MacCormick2012 | |
| | 23 | Thu | 11/15 | | [lab for PA4] | final project description | |
| 13 | 24 | Tue | 11/20 | | [exam] | -- | E3 |
| | | Thu | 11/22 | | [Thanksgiving] | -- | |
| 14 | 25 | Tue | 11/27 | | Bayes networks | 13.3-5, 14.1-2, 14.3 | PA4 |
| | 26 | Thu | 11/29 | | neural networks | 18.7 | FP1 |
| 15 | 27 | Tue | 12/4 | philosophy and ethics | Chinese room argument + contemporary ethical issues | Searle1980 + news articles (see web page) | |
| | 28 | Thu | 12/6 | final project | | | FP2 |
| | | Wed | 12/12 | | | | FP3 |