| Tentative Course Schedule | | | | | |
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| **#** | **Date** | **Lecture** | **Readings and useful links** | **HW** | **HW Deadline** |
| 1 | 99 / 06 / 30 | Course Overview & Introduction | | | |
| 2 | 99 / 07 / 01 | MLE, Map & Bayesian | Bishop Ch. 2.1-2.3 | HW1 (Review) | 99 / 07 / 11 |
| 3 | 99 / 07 / 06 | Linear Regression | Bishop Ch. 3.1 | | |
| 4 | 99 / 07 / 08 | Regression & Generalization | Bishop Ch. 1.1 & 3.2 | | |
| 5 | 99 / 07 / 13 | Regression (Generalization & Probability Perspective) | Bishop Ch. 1.2.5 & 3.2 | HW2 | 99 / 07 / 24 |
| 6 | 99 / 07 / 15 | Linear Classifier | Bishop Ch. 4.1 | | |
| 7 | 99 / 07 / 20 | Probabilistic Classifiers (Generative) | Bishop Ch. 4.2 | | |
| 8 | 99 / 07 / 22 | Probabilistic Classifiers (Discriminative) | Bishop Ch. 4.3 | HW3 | 99 / 08 / 9 |
| 9 | 99 / 07 / 27 | SVM | Bishop Ch. 7.1 | | |
| 10 | 99 / 07 / 29 | **Mini-exam1 (HWs 1-2)** | | | |
| | 99 / 08 / 04 | **No Class** | | | |
| 11 | 99 / 08 / 06 | SVM | Bishop Ch. 7.1 | | |
| 12 | 99 / 08 / 11 | Kernel | Bishop Ch. 6.1-6.2 | | |
| | 99 / 08 / 13 | **No Class** | | | |
| 13 | 99 / 08 / 18 | Neural Networks I | Bishop Ch. 5 | | |
| 14 | 99 / 08 / 20 | Neural Networks II | Bishop Ch. 5 | HW4 | 99 / 08 / 30 |
| 15 | 99 / 08 / 25 | Decision Tree | Mitchell Ch. 6.1-6.3 | | |
| 16 | 99 / 08 / 27 | Learning Theory I | Abu-Mostafa Ch. 2 / Shalev Shwartz Ch. 2&3 | | |
| 17 | 99 / 09 / 02 | Learning Theory II | Abu-Mostafa Ch. 2 / Shalev Shwartz Ch. 6 | | |
| 18 | 99 / 09 / 04 | Instance Based Learning I | Mitchell Ch. 8 | | |
| 19 | 99 / 09 / 09 | **Midterm (HWs 1-4)** | | | |
| 20 | 99 / 09 / 11 | Instance Based Learning II / Ensemble Learning (Bagging) | Mitchell Ch. 8 / Bishop Ch. 14.2 | | |
| 21 | 99 / 09 / 16 | Ensemble Learning (Boosting) | Bishop Ch. 14.3 | HW5 | 99 / 09 / 26 |
| 22 | 99 / 09 / 18 | Dimensionality Reduction I | Bishop Ch. 12 / Handout | | |
| 23 | 99 / 09 / 23 | Dimensionality Reduction II | Bishop Ch. 12 / Handout | | |
| 24 | 99 / 09 / 25 | Clustering I | Bishop Ch. 9 | | |
| 25 | 99 / 09 / 30 | Clustering II (EM-GMM) | Bishop Ch. 9 | | |
| 26 | 99 / 10 / 02 | Clustering III (EM-GMM) | Bishop Ch. 9 | | |
| 27 | 99 / 10 / 07 | **MiniExam2 (HW5)** | | HW6 | 99 / 10 / 12 |
| 28 | 99 / 10 / 09 | Reinforcement Learning I | Sutton & Barto Ch. 1, 3, 4 / Handout | | |
| 29 | 99 / 10 / 14 | Reinforcement Learning II | Sutton & Barto Ch. 6 / Handout | HW7 | 99 / 10 / 21 |