

Lecture Schedule (subject to change. Last updated March 11, 2024)

[Classes run](#) from January 8 – April 12

Week	Dates	Readings
Background		
1	January 9, 12	Introduction. Linear Classifier (Ch. 1). Syllabus Quiz.
2	January 16, 19	Linear Classifier. Background quiz.
Fully-connected Neural Nets and Backpropagation		
3	January 23 , 26, Jan 30 [strike]	Intro to Neural Nets. Backpropagation.
4	Feb 2	Training Tips and Tricks
5	February 6, 9	Training Tips and Tricks ctd. Convolutional Neural Networks. Ch. 3.
5	February 5	Assignment 1 due (feed-forward NN)
Special Neural Network Architectures		
6	February 13, 15	CNNs ctd. Recurrent Neural Networks: Sequential Data. Ch. 4.5, 4.6. Sequence-to-Sequence. Word Embeddings. 5.1-5.3, Ch.4.1-4.4
	February 19	Assignment 2 due (convolutional NN)
	February 20, 23	Reading Week
7	February 27, March 1	Attention and Transformer Models (slides).
8	March 5, 8	Transformers ctd.
9	March 12, 15	Basic Auto-Encoders Ch. 7.1, 7.3. Advanced Auto-Encoders: Convolutional and Variational. Ch. 7.2.
10	March 18	Assignment 3 due (Recurrent NN, fine-tuning LLMs)
10	March 19, 22	Generative Adversarial Networks. Ch. 7.4.
11	March 26 (March 29 is Good Friday)	Deep Reinforcement Learning. Ch.6
12	April 2, 5	Deep Reinforcement Learning. Ch.6
12	April 8	Assignment 4 due (Auto-Encoders)
13	April 9, 12	Deep RL, Exam Review and Practice
	April 21. 3:30-6:30 pm	In-person Exam. AQ-3005 CSIL ASB 9838
Summer term	May 21 10:00-11:00 am	Review session (exams, assignments)