

ECE C147/C247, Winter 2023
Neural Networks & Deep Learning
UCLA ECE

Reading List
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The Readings for the course from the textbook "Deep Learning by Ian Goodfellow, Yoshua Bengio and Aaron Courville" are tabulated below along with the topics (as per the syllabus).

Topics	Readings: Chapters in Textbook
Probability and Linear Algebra	2 and 3
Basics of Machine Learning	5 (up to and including 5.5)
Supervised Classification and Gradient Descent	Sections 5.7, 5.9, 5.10, 5.11.1
Neural Network	6, 6.1, 6.2, 6.3, 6.4
Backpropagation	Sections 6.5, 6.6
Regularizations and Training neural networks	7 (intro), 7.1, 7.2, 7.4, 7.5, 7.7, 7.9, 7.11, 7.12 (skim), 8.7.1
Optimization for neural networks	8 (intro), 8.1, 8.2, 8.3, 8.4, 8.5, 8.6 (skim)
Convolutional neural networks	9