

Schedule ENSF 611 Fall 2021

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September 3, 2021

Week of	Week	Lecture	Lab	Quiz	Hand in
2021-09-06 Mon	W1	Introduction/Review	Lab-1: Setup		
2021-09-13 Mon	W2	Overview ML (VP Ch5)	Lab0: Visualization Review		
2021-09-20 Mon	W3	Linear models (optimization)	Lab1: Sklearn intro	Q1: ML concepts (Thu 5pm - Fri 5pm)	Lab-1 (Mon noon)
2021-09-27 Mon	W4	Decision trees			Lab0 (Mon noon)
2021-10-04 Mon	W5	Data Engineering	Lab2: Regression	Q2: Supervised learning 1 (Thu 5pm - Fri 5pm)	Lab1 (Mon noon)
2021-10-11 Mon	W6	Model Evaluation			
2021-10-18 Mon	W7	More models (k-nearest, naive, svm)	Lab3: Classification	Q3: Evaluation and data (Thu 5pm - Fri 5pm)	Lab2 (Mon noon)
2021-10-25 Mon	W8	Dimensionality Reduction (PCA)			
2021-11-01 Mon	W9	Clustering (K-means)	Project	Q4: Supervised learning 2 (Thu 5pm - Fri 5pm)	Lab3 (Mon noon)
2021-11-08 Mon	W10	TERM BREAK	TERM BREAK		
2021-11-15 Mon	W11	Pipelines and Chains		Q5: Unsupervised learning (Thu 5pm - Fri 5pm)	Project proposal (Mon noon)
2021-11-22 Mon	W12	Text			
2021-11-29 Mon	W13	Time Series			
2021-12-06 Mon	W14	Wrap-up and outlook			Project final (Mon noon)

Textbook (MG): Introduction to Machine Learning with Python, Muller and Guido, 1st ed, 2016

Textbook (VP): Python Data Science Handbook, VanderPlas, 1st ed, 2016
available through library.ucalgary.ca