

DATA 610 Schedule 2022 Summer 5/16 – 8/6/2022

Week	Date	Day	Item	Content
1	5/16	Mon	Lecture	<i>Module 0. Introduction to R</i>
	5/22	Sun	Discussion (10)	<i>Self-introductions</i>
	5/22	Sun	Quiz: R basics (30)	
	5/22	Sun	HW# 0 (30)	
2	5/23	Mon	Lecture	<i>Module 1 (Chs. 1,2) Introduction to Big Data Analytics and Data Mining</i>
	5/26	Thu	Discussion (20)	<i>Big data case study</i>
	5/29	Sun	HW# 1 (30)	<i>Ch. 2</i>
3	5/30	Mon	Lecture	<i>Module 2 (Chs. 2,3) Predictive Power and Data Visualization</i>
	6/5	Sun	HW# 2 (30)	<i>Chs. 2,3</i>
4	6/6	Mon	Lecture	<i>Module 3 (Ch. 4) Data Exploratory Analysis</i>
	6/12	Sun	HW# 3 (30)	<i>Ch. 4</i>
	6/12	Sun	SAS Lab 1 (95)	<i>SAS Data Exploration</i>
5	6/13	Mon	Lecture	<i>Module 4 (Ch. 5) Evaluating Predictive Performance</i>
	6/16	Thu	Discussion (20)	<i>Model Validation</i>
	6/19	Sun	HW# 4 (30)	<i>Ch. 5</i>
6	6/20	Mon	Lecture	<i>Module 5 (Ch. 6) Prediction Methods I</i>
	6/26	Sun	HW # 5 (30)	<i>Ch. 6</i>
7	6/27	Mon	Lecture	<i>Module 6 (Ch. 7,9,10 selected topics) Prediction Methods II</i>
	6/30	Thu	Discussion (20)	<i>Case study</i>
	7/3	Sun	HW # 6 (30)	<i>Chs. 7,9,10 selected topics</i>
	7/3	Sun	SAS Lab 2 (95)	<i>SAS Predictive Modelling</i>

Week	Date	Day	Item	Content
8	7/4	Mon	Lecture-prerecorded	Module 7 (Ch.14) Association Analysis
	7/10	Sun	HW # 7 (30)	Ch. 14
	7/10	Sun	Start preparation	Start preparation for the Final project
9	7/11	Mon	Lecture	Module 8 (Ch.15) Cluster Analysis
	7/17	Sun	HW # 8 (30)	Ch. 15
	7/17	Sun	SAS Lab 3 (95)	SAS Association and Cluster Analysis
10	7/18	Mon	Lecture	Module 9 (Ch. 20) Text Mining
	7/24	Sun	HW # 9 (30)	Ch. 20
11	7/25	Mon	Lecture	Module 10 (Ch. 16) Forecasting Time Series
	7/31	Sun	HW # 10 (30)	Ch. 16
12	8/1	Mon	Lecture	Module 11 (NN, Soc Net), Final Project
	8/3	Wed	Final Project (150)	
	8/6	Sat	SAS Lab 4 (95)	SAS Text mining
	8/6	Sat	Paper (40)	Reflection paper
	8/6	Sat	Course Evaluation	