Stat 5014 Fall 2020 Schedule

Robert Settlage

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9:05-9:55 a.m.	Wednesday, Zoom
CRN:	90035
Office:	Zoom only – see Canvas for link
Email:	rsettlag@vt.edu
Office hours:	W 9-10, Zoom session open for "drop-ins"
Course Website:	$https://github.com/rsettlage/STAT_5014_Fall_2020$

Suggested schedule, you can speed ahead. *Denotes homework due by date (you can turn in early)

Lecture	Date	Topic
		MODULE 1 – R Bootcamp for Reproducible Research
1	26-Aug	Introductions, R, Rstudio, Rmarkdown, LaTeX, Git and Reproducible
		Research
2	2-Sep*	Data structures, plotting basics, Reproducible Research and (some) Git
3	9-Sep	Loading, munging, summarizing data using tidyverse
4	16-Sep*	R functions, logic, good programming practices
5	23-Sep	R Vector/matrix manipulations and math, speed considerations
6	30-Sep*	R's Apply family of functions
7	7-Oct	Parallel computing in R, foreach and dopar
		MODULE 2 – Graphics in R
8	14-Oct*	Base graphics, multi panel plots
9	21-Oct	$\operatorname{ggplot} 2$
10	28-Oct	Interactive Visualizations and Dashboards
11	4-Nov^*	GUIs for working with collaborators
		MODULE 3 – Deep Learning and some Python
12	11-Nov	Deep Learning using Keras in R
13	25-Nov	No class – Thanksgiving
-	2-Dec	Python and Jupyter Notebooks
14	9-Dec^*	More Python (Final projects due)
15	16-Dec	Final – none