

Weekly schedule

Week	Topic	Reading	Extra reading
01	Introduction and Overview	DASS Ch1.3-7	HOPR Ch1, Ch2, Ch3
02	Measuring and summarising data	DASS Ch1.8	HOPR Ch5, Ch6
03	Data Visualisation	R4DS Ch3	FA Ch1, Ch2
04	Data collection and manipulation	R4DS Ch5	HOPR Ch7, Ch8
05	Bivariate association and causality	DASS Ch2	
06	Dimension Reduction	I2SL Ch6.3	
07	Conducting Reproducible Research	DASS Ch3	
08	Normal Curve & Confidence intervals	DASS Ch6	
09	Hypothesis Testing	DASS Ch7	
10	Simple regression	DASS Ch4	
11	Multiple regression	DASS Ch5	
12	Logistic regression and advanced topics	I2SL Ch4.1-3; QSS Ch5.2-3	
13	Computational text analysis	QSS Ch5.1	TMWR Ch1, Ch2, Ch3

Text book:

- Llaudet, E., & Imai, K. (2022). *Data analysis for social science: A friendly and practical introduction*. Princeton University Press. <https://press.princeton.edu/books/hardcover/9780691199429/data-analysis-for-social-science> (DASS)
 - Publicly and fully available online: NO
 - Online access through library: NO
 - Copy available through library: NO

Other texts:

- Cairo, A. (2012). *The Functional Art: An introduction to information graphics and visualization*. New Riders. <https://learning.oreilly.com/library/view/the-functional-art/9780133041187/> (FA)
 - Publicly and fully available online: NO
 - Library access: YES link

- * Online access: YES link
- * Hard Copy: YES
- James, G., Witten, D., Hastie, T., & Tibshirani, R. (2013). *An introduction to statistical learning: With applications in R*. Springer. <https://www.statlearning.com/> (I2SL)
 - Publicly and fully available online: YES link
- Golemund, G. (2014). *Hands-on programming with R*. O'Reilly. <https://rstudio-education.github.io/hopr/> (HOPR)
 - Publicly and fully available online: YES link
- Imai, K. (2017). *Quantitative social science: An introduction*. Princeton University Press. <https://press.princeton.edu/books/paperback/9780691175461/quantitative-social-science> (QSS)
 - Publicly and fully available online: NO
 - Library access: NO
- Silge, J., & Robinson, D. (2017). *Text mining with R: A tidy approach*. O'Reilly. <https://www.tidytextmining.com/> (TMWR)
 - Publicly and fully available online: YES link
- Wickham, H., & Golemund, G. (2017). *R for data science*. O'Reilly. <https://r4ds.had.co.nz/> (R4DS)
 - Publicly and fully available online: YES link