

# Stat 5014 Schedule

*Bob Settlage*

*Fall 2018*

**9:00-9:50**

**a.m.                      Wednesday, Torgersen Hall 1040**

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Office hours:              MF 9-10, location TBD

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Course                      [https://github.com/rsettlage/STAT\\_5014\\_Fall\\_2018](https://github.com/rsettlage/STAT_5014_Fall_2018)

Website:                      ([https://github.com/rsettlage/STAT\\_5014\\_Fall\\_2018](https://github.com/rsettlage/STAT_5014_Fall_2018))

Tentative schedule:

Lecture	Date	Topic
<i>MODULE 1 – Using R for Reproducible Research</i>		
1	22-Aug	Introductions, Reproducible Research, R, Rstudio, Rmarkdown, <i>L<sup>A</sup>T<sub>E</sub>X</i>
2	29-Aug	Loading, munging and summarizing data in R, plus some Git
3	5-Sep	R functions and logic, good programming practices
4	12-Sep	Vector/matrix math, speed considerations
5	19-Sep	R's apply family of functions
<i>MODULE 2 – Graphics in R</i>		
6	26-Sep	Base graphics, multipanel plots
7	3-Oct	ggplot
8	10-Oct	Dashboards
9	17-Oct	Interactive visualizations
<i>MODULE 3 – Computing</i>		
10	24-Oct	Parallel computing in R, foreach and dopar
11	31-Oct	Python and Jupyter notebooks
12	7-Nov	Python II

*MODULE 4 – GUI driven stats*

13	14-Nov	Intro to GUIs – BlueSky and JMP
-	21-Nov	Thanksgiving Break
14	28-Nov	More GUIs – JMP II and Orange
15	5-Dec	From JMP to SAS
-	Final	None