

	Friday (What is R, generating and plotting data)	Saturday (Statistics in R)	Sunday (Teaching stats with R)	Monday (Understanding R and special topics)
9:00 AM	Coffee, Snacks	Coffee, Snacks	Coffee, Snacks	Coffee, Snacks
9:20 AM	\$ 100.00	\$ 100.00	\$ 100.00	\$ 100.00
9:40 AM	L: Welcome, R intro, Syllabus [1]	L: Review	L: Review [2]	J: Review
10:00 AM	Parcipant Introductions	L: DataFrames, Loading & Saving Data (txt, csv, xls, SPSS), web import [3]		
10:20 AM	WhatsApp, Github Group, Installing R/RStudio/Git	(use Psych experiment data)	N: Group Analysis Exercise: Making Stats lessons in R: Paper programming...	N: Review or Special Topic: Good Data Vizualization practices and ggplot2 [4]
10:40 AM	Libraries:tidyverse	Data Exploration and Plotting exercise	...to single programming...	{insert hard topic here}
11:00 AM	Exercises: ?, c(), mean, sum, var, sd, sqrt, +~/, etc		...to pair programming.	(e.g., for, while, etc)
11:20 AM	(worksheet exercises, so instructors can keep helping with installation where needed)			
11:40 AM				
12:00 PM	Lunch break	Lunch break	Lunch break	Lunch break
12:20 PM	not paid	not paid	not paid	not paid
12:40 PM				
1:00 PM	N: Assignment and using functions: rnorm(), rle(sort()), hist(), plot(), seq() [5]	N: Hypothesis tests (e.g. t.test(), cor.test(), cor()), re-create as a function [6]	N: RMarkdown and knitr [7]	J: DRY, function(), and apply() [8]
1:20 PM			(adapting scripts to R Markdown notebooks)	(keeping it open)
1:40 PM			Scripts Presentation and Review	
2:00 PM				
2:20 PM	J: Strings, functions with multiple and named arguments, plot(xlab=, ylab=, x=, y=), syntax errors [9]	N: Models and ANOVA, drill custom functions further? [10]	Group Discussion: Insights during exercise	N: Review or Special Topic: Data pipelines and the tidyverse [11]
2:40 PM			Group Discussion: R in Teaching	(Possibly: Coding in science)
3:00 PM				
3:20 PM				
3:40 PM	Coffee break	Coffee break	Coffee break	Coffee break
4:00 PM	\$ 150.00	\$ 150.00	\$ 150.00	\$ 150.00
4:20 PM	J: Intro to RStudio, making scripts [12]	L: Basic idea of custom functions [13]	J: Formatting Data for Machine- and Human-Readability, Missing Data, NULL, NA, [14]	See how it goes [15]
4:40 PM	Selecting Good Data: Data Subsetting and Logicals	Standard error, conceptual	Excel to R	Consolidate
5:00 PM	(more functions, labelling plots, inc. generating random data; R studio interface/buttons)	replicate	Gotcha scenarios	Review
5:20 PM		N: R Libraries, CRAN, Github, and the value of Googling (install.packages(), library())		Evaluation sheets?
5:40 PM	Session Wrapup and Discussion	Session Wrapup and Discussion	Session Wrapup and Discussion	
6:00 PM				
6:20 PM				
6:40 PM	Group Dinner		Group Dinner	
7:00 PM				
7:20 PM	\$ 700.00		\$ 700.00	
7:40 PM				
8:00 PM				