

## Syllabus

15 August	Introduction to R
17 August	Introduction to R, part 2
22 August	Introduction to R, part 3 (problem set)
24 August	Plotting concepts
29 August	Plotting in R (problem set)
31 August	Sampling design
5 September	Statistics fundamentals (problem set)
7 September	Hypothesis testing
12 September	<i>No class: Hurricane Irma</i>
14 September	Type I and Type II errors
19 September	P-values and confidence limits
21 September	Assumptions of tests; review
26 September	Exam 1: Using R and the fundamentals of statistics
28 September	Equality of means
3 October	Equality of variance
5 October	ANOVA (problem set)
10 October	Correlation
12 October	Regression (problem set)
17 October	Resampling (problem set)
19 October	Likelihood & Bayesian
24 October	No class: GSA Meeting
26 October	Problems and review
31 October	Exam 2: Common univariate and bivariate tests
2 November	Multiple regression
7 November	Non-linear regression
9 November	Principle components analysis
14 November	Multidimensional scaling
16 November	Discriminant function analysis
21 November	No class: Thanksgiving break
23 November	No class: Thanksgiving break
28 November	Review
30 November	Exam 3
5 December	No class: UGA following a Friday schedule

*Syllabus is subject to change*

## Professor

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## Grades

20% Exam 1: Using R and the fundamentals of statistics  
20% Exam 2: Common univariate and bivariate tests  
20% Exam 3  
20% Problem sets and quizzes  
20% Course Project

## Course Materials

Crawley, M.J., 2014. *Statistics: An Introduction Using R*, 2<sup>nd</sup> edition. Wiley, New York, 360 p. ISBN-13: 978-1118941096. Note that the equations in the Kindle edition are reportedly unreadable.

All students should install R on their personal computers. R is available for OS X, Linux, and Windows systems at <http://www.r-project.org>