About this course Stat 33A: Intro to Programming in R

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Intro

Welcome to Stat 33A







About Stat 33A

- Audience: students with **no** programming experience
- Know already: basic algebra, arithmetic
- **Emphasis**: variables, if-statements, loops, functions
- Goal: that students finish the course with the skills necessary for conducting a typical data analysis or implementation of a simple algorithm.

About Stat 33B

- Audience: students with previous programming experience (not necessarily in R)
- **Know already**: variables, if-statements, loops, functions.
- **Emphasis**: details about how R works at a lower level.
- ► **Goal**: that students finish the course with the skills necessary to help develop and maintain software in R.

33A -vs- 33B (analogy)

33A	33B
know the main parts of a bike	know the ins-&-outs of a bike
learn to ride a bike	you already know how to ride a bike
how to pedal	types of pedals
how to break	types of breaks
how to switch gears	how to tune a bike
fix a flat	how to assemble a bike

Course Logistics

Course Format

- Lecture: conceptual stuff, demos, case studies, examples, review some code
- ► Lab: practical work using R
- **Homework**: follow the work of labs, plus some challenges

Workload and grading scheme

Description	How Many	Frequency	Drops	Weight
Labs	11*	Every week	lowest	10%
HWs	6	Every 2 weeks	none	60%
Quizzes	2	Every 2 HWs	none	8%
Final exam	1	Once	none	22%

(*) labs 1 and 4 ungraded

My Expectations

- I don't expect that you'll become fluent in R (as with any language, that takes years of practice, practice, and practice)
- ▶ Instead: expose you to the common vocabulary and idioms in R
- Also, teach you some of the core principles that govern R's behavior
- And to give you recommendations for avoiding common coding pitfalls in R

Waitlisted Students

- Must do all coursework and complete assignments by the deadlines.
- You'll be enrolled if there is space in your lab.
- Enrollment will proceed by CalCentral.
- ▶ We won't increase enrollment.

Concurrent Students (e.g. BISP, exchange, etc)

- Must do all coursework and complete assignments by the deadlines.
- ► We will add you to bCourses.
- ▶ If there is available space, we will approve your application.
- ▶ The approval process is a 2-step process (it takes time).
- We won't increase enrollment.