

Lecture 1 – Intro to the Course

Today:

1. Overview of the course.
2. Overview of the syllabus.
3. Icebreaker
4. Tools of the course

Course Atmosphere

You may get bored, that's OK.

Don't be a jerk.

This course is NOT a competition between students!

I am here to help.

Course Learning Objectives:

- 1. Become proficient in the use of the *R* language.**
- 2. Become familiar with the use of Bash, shell programming, and console editors.**
- 3. Learn the basic principles of software design.**
- 4. Produce code that is reproducible and produces results that are replicable.**
- 5. Learn to interact with High-Performance Computing resources.**
- 6. Learn how to document your work and prepare scientific publications.**

Course Policies

I don't care about your background or how you dress or if you have your camera on or not.

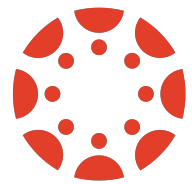
Please mute yourself if you are not asking/answering a question.

This course is optional synchronous / asynchronous. Participating is mandatory. Feel free to be creative how you choose to engage.

Please read the syllabus and complete the syllabus assignment on Canvas.

Academic Honesty: cite your sources (even in code); group work is fine as long as you disclose who you worked with on each assignment. Do so at the top of a script.

Course Structure



canvas

Syllabus
Assignments
Gradebook
Zoom links and recordings



GitHub

Syllabus
Other Course Materials
Lecture Notes
Assignment Templates/Code
Your Work



slack

Announcements
Discussion
Group work

Course Structure

Assessment:

30% – Assignments

Short assignments associated with each lecture, reinforce concepts and provide space to practice. Complete/not complete. Feedback provided.

5% – Participation

Any engagement in the course on an intellectual level.

35% – Midterm Coding Project

Project meant to develop and assess skills learned in the first half of the course.

30% – Final Project

Project meant to develop and assess skills learned in the second half of the course.

Other Course Tools

Please have these installed and functional before next time:



Bash: See instructions on Github README



R: <https://www.r-project.org/>



RStudio: <https://rstudio.com/products/rstudio/download/>



git: <https://git-scm.com/downloads>

Icebreaker!

I will assign you to breakout rooms.

In your groups, come up with answers to the following questions:

- 1) Pick an animal mascot for your group.**
- 2) What's (collectively) the weirdest/most unique thing that someone in your group has done?**