

ECo 634 - Analysis of Environmental Data Lab

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Fall 2020

For Today

- ▶ Announcements
- ▶ Introduction to software
- ▶ Introduction to lab 1

Announcements

- ▶ Learning objectives assessment questions are now available.
 - ▶ Previously, they had not been associated with the assignment
 - ▶ Due date extended until next Tuesday
 - ▶ Please consider doing it right away - it shouldn't take much of your time
- ▶ Moodle continues to be slow...
 - ▶ Course materials on the course github.io webpage
 - ▶ Lab questions in the lab templates (available on the webpage)

Announcements

- ▶ Computer and software access challenges
 - ▶ Let's chat case-by-case during lab today
- ▶ Access to Lab Moodle
 - ▶ In case the ECo 634 does not yet appear in your Moodle you can use guest access:
 - ▶ <https://moodle.umass.edu/course/view.php?id=66536>
 - ▶ PWD: MaggieBetsyCallieCooperLacey1999

Lab session format

The lab sessions are meant to be a common time that we can all be together for collaboration and questions.

I won't generally have a prepared lecture.

I'll be available to the class for things like:

- ▶ Coding demos
- ▶ Questions about coding and R
- ▶ Questions about analyses and data
- ▶ Breakout groups

Lab grades

- ▶ 80% of your grade is based on weekly lab assignments.
- ▶ 5% on learning objectives assessment
- ▶ 15% on learning outcomes assessment

Learning objectives and outcomes

Objectives assessment

- ▶ A snapshot at the beginning of the course

Outcomes assessment

- ▶ A tool to gauge learning
- ▶ Same questions as learning objective assessment
 - ▶ some additional more detailed questions about specific topics covered during the semester

Lab assignments

There will be 1 lab assignment each week.

- Assignments are due the following Friday by midnight.

NOTE: The lab assignments are adapted from last year's labs.

- The previous assignments were large and multi-week.
- I believe smaller, more frequent labs will be better with the online format.
- I appreciate your feedback on the difficulty level and time requirements!

Lab Software

You will need:

- ▶ R and RStudio
- ▶ Github and Github desktop
 - ▶ We'll begin using these next week

DataCamp

- ▶ You'll find the invite link in the lecture Moodle site

Lab 1

The lab questions build on the materials in the Intro to R DataCamp course.

- ▶ Complete the DataCamp course
- ▶ Download lab template and work through the exercises
- ▶ Submit answers and code snippets through Moodle.

I suggest you read the Moodle questions right away!

- ▶ It'll help you focus on the DataCamp lessons that pertain to the questions

Let's get started!

I'm here to help with software setup and other questions.