

University of Houston

HPE Data Science Institute

Syllabus: 211 R for Data Science

Instructor: Ishita Sharma

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Meeting Times Session: Mondays, Wednesdays : 10:30 AM to 12:00 PM

Office Hours: Online and by appointment

Location: Online

Website: <https://secure.hpedsu.uh.edu/training/course/info.php?id=249>

Course description: This course will teach you a basic understanding of **how to program in R**. You will learn how to use the **R Studio software** necessary for a **statistical programming environment**. The course covers **reading data into R, accessing R packages, writing R functions, debugging, and commenting R code**. We will introduce **visualization concepts in R**, and you will also learn how to **run R code on the HPEDSI HPC clusters**.

Prerequisites: Participants are expected to have a working knowledge of the UNIX/Linux environment or should have taken Cluster computing course from HPEDSI dept.

Textbook: None Required

Lecture notes would be provided through course website.

Evaluation (tentative): Required Materials We will use Course website for all material, assignments etc. Course Objectives Class Structure This will be a hand -on course in which you will practice all covered topics in class. You may bring a laptop to class in order to engage with the material as we discuss, tinker and explore together.

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Grading Policy. This is a Pass/Fail class. I reserve the right to curve the scale dependent on overall class scores at the end of the semester. Any curve will only ever make it easier to obtain the pass grade.

Your grade for this course will be distributed as follows:

- 20% Attendance
- 30% Homework
- 50% Project (due 1 week after the last lecture) The project will be given out during the last week of this class.

Attendance Requirement:

Good standing on Attendance grade (>50%) would be required to see new course materials, homework assignments, and exams/projects as the course proceeds.

Also, for students interested in getting a badge or certificate for completing this course, an attendance grade of **at least 12 hours of the class meeting sessions is required, to be qualified for passing the course and getting the badge.**

Copyright protection:

The course materials and online lecture videos posted on Blackboard/Moodle are only meant to be used within this course and should not be distributed.

The University of Houston Academic Honesty Policy applies:

<http://www.uh.edu/provost/policies/honesty/>

Students in need of counseling:

Counseling and Psychological Services (CAPS) can help students who are having difficulties managing stress, adjusting to the demands of a professional program, or feeling sad and hopeless. You can reach CAPS (www.uh.edu/caps) by calling 713-743-5454 during and after business hours for routine appointments or if you or someone you know is in crisis. No appointment is necessary for the "Let's Talk" program, a drop-in consultation service at convenient locations and hours around campus.

http://www.uh.edu/caps/outreach/lets_talk.html