

# DATA 301

## Special Topics I: R

### Course Details

**Instructor:** Sergey Lapin ([slapin@wsu.edu](mailto:slapin@wsu.edu))

**IMPORTANT:** Visit the course "[More Information](#)" page to review details about textbooks, course materials, media, proctor requirements, and any fees associated with this course.

No textbook is required. Additional references are mentioned within each module.

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### Course Overview

This is a 1 credit course to introduce you to R through two dimensions – Programming skills and Data analytic skills. The purpose of this course is to expose you to R and get a hands-on knowledge on programming, handling different types of data, data cleaning and visualization. After this course, you will be confident to take up any course or project that involves coding in R.

**Prerequisites:** None

### Student Learning Outcomes (SLOs)

- Apply R for basic programming
  - Perform operations with different data structures
  - Perform basic data cleaning and pre-processing operations
  - Summarize both qualitative and quantitative data
  - Create meaningful data visualization and interpret them
  - Create report in Rmarkdown
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### Course Work

There are 12 assignments distributed throughout the course that needs to be completed as instructed in the course modules. Students are encouraged to collaborate with other students in the class. In that case, please mention the name and WSU student ID of your collaborators in your assignment. However, students will be failed the assignment if found violating academic integrity policy (copying from any online source or from other

students) as a first warning and will be failed the course for any subsequent violation. Please refer to academic integrity policy statement below for further details.

## Expectations for Student Effort

Students should expect to spend a minimum of 3 hours per week for each online 1-credit course, engaged in the following types of activities: reading, listening to/viewing media, discussion, or conversation in the LMS or other academic technology, conducting research, completing assignments and reviewing instructor feedback, studying for and completing assessments, etc.

## Grading

Grading is Pass/Fail. Students need to complete all the assignments to pass the course.

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## Instructor Interaction

We will use the [Ask the Instructor discussion forum](#) for course-related questions. This is a great place to ask questions from your peers, as well as to get feedback on your ideas. Announcements and other official communications will be posted on Canvas as well as sent to your official WSU email accounts. You should check these messages regularly to stay informed about upcoming due dates and updates to the syllabus.

Please reserve email for more personal inquiries (e.g., grades, etc.). Please include the name of the course in the subject line for any messages concerning the course. I will commit to responding within 48 hours but this does mean that queries sent immediately before a deadline may not receive substantive responses in time to be directly helpful, so please plan ahead.

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## Late Work Policy

The instructor has the latest information about a late work policy.

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## Incomplete Grade Policy (Academic Rule 90h)

Incompletes are granted only with permission of the instructor and are subject to the following guidelines:

1. Students must request an incomplete in writing or by e-mail from the instructor before the end of the semester.
2. The request must be signed and dated by the student (or identified by student's e-mail address) and must explain the reasons behind the request for the incomplete.
3. In order to be considered for an incomplete, there are two main conditions:
  1. A student must complete a minimum of 75 percent of the assigned course work.
  2. A student must have a mathematical possibility of scoring a 60 percent or above for the entire course.
4. If extraordinary circumstances (e.g., family emergency, serious illness) are involved and are documented to the instructor's satisfaction, the professor/ instructor retains the discretion to grant an incomplete even if the minimum conditions outlined in item 3 above are not met.

If an incomplete is granted, the standard WSU policy applies (i.e., ALL work must be completed within one full year from the end of the enrollment semester at issue, unless a shorter time is specified by the instructor. Otherwise, an automatic grade of "F," or failing, will be entered on the student's transcript).

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## Credit Hour Equivalent

Academic credit is a measure of the total minimum time commitment required of a typical student in a specific course. For the WSU semester system, one semester credit is assigned for a minimum of 45 hours of student effort. See Academic regulation 27.

For a 15-week course, students should expect to spend a minimum of 9 hours per week for each online 3-credit course engaged in activities including, but not limited to: reading, listening to/viewing media, completing assignments and reviewing instructor feedback, contributing to discussions, conducting research, studying for and completing assessments, etc.

For a 7-week course, students should expect to spend a minimum of 19 hours per week for each online 3-credit course engaged in the activities as listed above.

## For Graduate Students

The Graduate Student Rights and Responsibilities describes procedures for channeling graduate student complaints, grievances, and concerns to faculty, staff and administrators for appropriate action. In conjunction with this document, graduate students must adhere to the Graduate School's Policies and Procedures. While these rights and responsibilities outline the complaint process, students are encouraged to use the Graduate School Deans for guidance and advice on conflicts that may arise at any point during their course of study at the University.

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# Academic Integrity

Academic integrity is the cornerstone of higher education. As such, all members of the university community share responsibility for maintaining and promoting the principles of integrity in all activities, including academic integrity and honest scholarship. Academic integrity will be strongly enforced in this course. Violation of WSU's Academic Integrity Policy (identified in Washington Administrative Code (WAC) 504-26-010(3) and -404) may result in penalties up to and including failing the assignment, exam, quiz, course requirement, or the course itself and students will not have the option to withdraw from the course pending an appeal, and will be reported to the Office of Community Standards.

Cheating includes, but is not limited to, plagiarism and unauthorized collaboration as defined in the Standards of Conduct for Students, WAC 504-26-010(3). You need to read and understand all of the definitions of cheating (<https://app.leg.wa.gov/WAC/default.aspx?cite=504-26-010>Links to an external site.). If you have any questions about what is and is not allowed in this course, you should ask course instructors before proceeding.

Undergraduate only: If you wish to appeal a faculty member's decision relating to academic integrity, please use the form available at [communitystandards.wsu.edu/Links to an external site.](https://communitystandards.wsu.edu/Links%20to%20an%20external%20site)