

DATA 301: Introduction to R

Fall 2024



WASHINGTON STATE UNIVERSITY
Data Analytics

Course Logistics

Prefix/Number: DATA 301 (WSU Everett, Global Campus, Pullman, and Vancouver)
Credit Hours: 1
Prerequisites: None
Location: Global Campus

Instructors Information

Instructor: [Gani Nurmukhametov](#)
Office: WSU Everett Room 404
Phone: (425) 405-1659
Email: gani.nurmukhametov@wsu.edu
Office Hours: typically¹ M 11 am - 12 noon, F 9-10 am or by prior appointment in [Zoom](#)

Introductory Note

First of all, welcome to DATA 301! I hope I will get a chance to meet you in person sometime during your journey at Washington State University.

Secondly, sorry this is such a long document. Despite that, I hope you will make time to read it through at least once during the first week of the course as it contains a useful summary of the material we will be covering and will serve as a repository of important information and links.

Finally, definitely feel free to reach out if you have any questions or concerns about the course or material. I am always happy to chat about data, statistics, or academic life and would welcome opportunities to offer my perspective or simply serve as a sounding board.

Course Description

This is a one-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.

Course Materials

There is no required textbook. Additional references are mentioned within each module.

Class Communication and Instructor Interaction

Announcements and other official communications will be posted on the Canvas website 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.

I am accessible by email at gani.nurmukhametov@wsu.edu. I teach multiple courses, so please, as a courtesy to me, include “DATA 301 (Fall 2024)” in the subject line for any messages concerning this course. I will most likely read your email as soon as I receive it, but it still may take me a little while to respond. I will try to get back to you as quickly as I can 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 ☺

¹I may change the time or even cancel office hours on a given day. Please follow my announcements on Canvas.

I strongly encourage you to utilize the resource that is freely available to you, that is my office hours! This will allow you to get immediate feedback from me. I hold my office hours in Zoom. Following the Zoom meeting link, you will appear in the waiting room first, and if I am not already talking to another student, then I will accept you right away. Please expect our meeting to last for 15-20 minutes if there are more students in the waiting room; if you are the only student attending my office hours on a given day, then I will allocate all its time to you. If you cannot attend my office hours, do not hesitate to send me an email and we can schedule a short appointment in Zoom that fits both you and me.

Expectations for Student Effort

You are expected to spend a minimum of 3 hours per week for an online one-credit course engaged in activities including, but not limited to: reading, studying, problem solving, writing, homework, and other preparations for the course.

Students enrolled in online courses are subject to the same academic regulations as on-campus students. For the most accurate and up to date information go to [Academic Regulations](#).

Student Learning Outcomes

Students who successfully complete the course will be able to:

- 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 R Markdown;

Assignments and Grading

There are 12 assignments distributed throughout the course that needs to be completed as instructed in the course modules. Grading is Pass/Fail. Students need to get at least 60% of the overall course points to pass the course.

Late Work Policy

Late submissions are not normally allowed. Earlier submissions are allowed at any time before the due date. Extensions *may be* allowed by contacting me well in advance and in case of real emergencies. After the answers for the assignments have been provided on the Canvas website, that assignment cannot be made up, so please reach out to me early if needed. It is better to turn in a partially completed work than none at all.

Collaboration Policy

You are encouraged to work with other students for the assignments in the class. However, the work that you submit should be your own and in particular should be written in your own words and communicate your own understanding of the solution. If you do collaborate, please list the names of the other students you worked with on your submission. You may be asked to explain your work in person to obtain full credit. Obtaining solutions for course problems from external sources will be considered a violation of the academic integrity policy with consequences described below.

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.

You are responsible for reading WSU's [Academic Integrity Policy](#), which is based on [Washington State law](#). Students who violate the Academic Integrity Policy will fail the assignment, will not have the option to withdraw from the course pending an appeal, and will be reported to the Center for Community Standards. Multiple violations of the policy will cause you to fail the course.

Cheating includes, but is not limited to, plagiarism and unauthorized collaboration as defined in the Standards of Conduct for Students (identified in [Washington Administrative Code \(WAC\) 504-26-010\(2\)](#)). You need to read and understand all of the definitions of cheating. If you have any questions about what is and is not allowed in this course, please reach out to me before proceeding.

If you wish to appeal my decision relating to academic integrity, please use [the form](#) at the [Center for Community Standards](#) website. You must submit this request within 21 calendar days of the decision.

Incomplete Grade Policy ([Academic Rule 90h](#))

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

1. You must request an incomplete in writing or by e-mail to me before the end of the semester. This request must be signed and dated by you (or identified by your WSU e-mail address) and must explain the reasons behind the request for the incomplete.
2. In order to be considered for an incomplete grade, these two conditions should be met:
 - You must complete a minimum of 75 percent of the assigned course work.
 - You must have a mathematical possibility of scoring a 60 percent or above for the entire course.
3. If extraordinary circumstances (e.g., family emergency, serious illness) are involved, I retain the discretion to grant an incomplete even if the minimum conditions outlined in item 2 above are not met.

If an incomplete grade 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 your transcript).

Library Support

All students enrolled in Washington State University online courses can use the WSU Libraries online databases and receive reference and research assistance from their home campus. Students can also borrow books and other circulating material as well as access full-text journal articles.

General Library Support Links:

- [Global Campus](#)
- [Pullman Campus](#)
- [Spokane Campus](#)
- [Tri-Cities Campus](#)
- [Vancouver Campus](#)
- [College of Nursing](#)

Online Tutoring

As a WSU student enrolled in an undergraduate course, you have free unlimited access to Online Tutoring. This is not a course requirement, but a resource for you to utilize as needed.

With three ways to access a tutor you can choose the one that best fits your needs:

- Submit a paper: Writing Lab tutors will respond to papers in any academic subject. Just submit your paper, ask specific questions on the submission form, and a tutor will respond within 24-48 hours.

- Live tutoring: eChat rooms allow students to meet with tutors in one-on-one tutoring sessions via a fully interactive, virtual online environment.
- Leave a question: Students can leave specific questions for a tutor in any of our subjects by taking advantage of our eQuestions option. Our tutors will respond to your question within 24-48 hours.

More details and the list of available tutoring subjects can be found at www.eTutoringOnline.org

WSU Academic Calendar

Please refer to the [WSU academic calendar](#) to be aware of university holidays and important deadlines throughout the semester.

Technical Support

The [WSU Global Campus Current Student](#) website has all the administrative and contact-related information you need to be a successful online learner as well as [study tips and skills for success](#).

Before contacting Technical Support please visit our [Equipment Requirements](#) to ensure your system meets our computer requirements and test your connection.

Technical support is available 24/7. A member of our technical support team will assist you or direct your request to the appropriate group. The technical support team is NOT able to answer questions about course content or procedures (e.g., assignments, grades).

Please visit our [Tech Support website](#) for hours of operation and contact information.

Copyright

Any course-related materials, presentations, lectures, etc. are the instructor's intellectual property and may be protected by copyright. The use of University electronic resources for commercial purposes, including advertising to other students to buy notes, is a violation of WSU's computer abuses and theft policy ([WAC 504-26-218](#)). Selling class notes through commercial note taking services without written advance permission from the faculty, could be viewed as be as copyright infringement and/or academic integrity violation([WAC 504-26-010 \(3\)\(a,b,c,i\)](#)).

University Syllabus

Students are responsible for reading and understanding all university-wide policies and resources pertaining to all courses (for instance: accommodations, care resources, policies on discrimination or harassment), which can be found in the [University Syllabus](#).