**PSYC 300: Statistics in Psychology**

**Lab Section 207**

Instructor: Zihao Jia Email: zjia2@gmu.edu

Office Hours: By appointment only

**Course Description and Objectives**

We will cover many of the basic descriptive and inferential statistics that are used in the field of psychology. This is a 4-credit course, which includes both a lecture section and a lab section. During your lab sessions, we will review and practice topics from the lecture. You will get hands-on experience using a computer program to analyze data. By the end of this course, students should be able to:

* Identify and apply appropriate statistical procedures for simple research designs.
* Analyze data using statistical software.
* Communicate statistical findings using APA guidelines.

**COURSE SCHEDULE**

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| --- | --- | --- | --- | --- |
| **Week** | **Topic** | Lab assignment | **Lab Date** | **Due Date** |
| 1 | Syllabus Overview & Primer |  | Aug 25th |  |
| 2 | Intro to Stats | Central Tendency & Measurement Types (Chapter 1 & Chapter 2) | 1 | Sep 1st | Sep 4th |
| 3 | **Labor Day – No Class** |  |  |  |
| 4 | Variance | Visualization (Chapter 3 & 4) | 2 | Sep 15th | Sep 18th |
| 5 | Correlation | Reliability & Validity (Chapter 5 & 6)  | 3 | Sep22nd | Sep 25th |
| 6 | Hypothesis Testing | Data Distributions (Chapter 7 & 8) | 4 | Sep29th | Oct 2nd |
| 7 | Significance Testing | Z-tests (Chapter 9 & 10) | 5 | Oct 6th | Oct 9th |
| 8 | Independent & Dependent samples t-test (Chapter 11 & 12) - Synopsis 1 due | 6 | Oct 20th | Oct 23rd |
| 9 | **Fall Break -- No Class** |  |  |  |
| 10 | ANOVA(Chapter 13)  | 7 | Oct 27th | Oct 30th |
| 11 | Factorial ANOVA (Chapter 14) | 8 | Nov 3rd | Nov 6th |
| 12 | Correlation (Chapter 15) | 9 | Nov 10th | Nov 13th |
| 13 | Linear Regression (Chapter 16) - Synopsis 2 Due | 10 | Nov 17th | Nov 20th |
| 14 | Bonus Material (Chapter 18) - NO LAB |  |  |  |
| **15** | **Thanksgiving Break - No Class** |  |  |  |
| **16** | **No Class  - FINAL EXAM RELEASED** |  |  |  |
| **17** | **FINAL EXAM DUE** |  | **Dec 7th** |  |
| **18** | **Last Day of Semester** |  | **Dec 14th** |  |

**Required Materials**

There is no required textbook for the lab section. But you will need a laptop that can access to Internet to finish lab assignments.

**Lab Assignments**

The lab portion of this course accounts for 35% of your grade. Each week there is a in-lab assignment that will be due at 11:59PM EST Sunday. There will be 10 lab assignments in total, so each assignment accounts for 3.5 points in your final grade. You will be expected to download the homework assignment, provide the answers, and submit it on Blackboard (go PSYC-300-207 section, under “Lab Assignment” tag). The lab instructor is available via e-mail or in person during the lab for any questions about these assignments.

Late assignments: Late assignments will only receive 60% of the grade.

**Lab Attendance**

Lab attendance is required. Material will be presented in lab that is not covered in lecture and you will be responsible for knowing that information. Additionally, you will lose lab assignment points if you do not attend. You may also miss announcements about scheduling changes and extra credit opportunities.

Arriving on time for lab is important. We cover new content and discuss the examples necessary to complete assignments at the beginning of lab, making this period of time the most important part of lab. I will allow one late arrival without deducting points from that week’s assignment. After this, if you are late to class, you will have points deducted from your lab assignment (0.5 point for every 5 min). If you are more than 15 minutes late to class, 1.5 points will be deducted from that week’s in-lab assignment.

Please contact me if you will be missing lab so that we can make arrangements for you to complete the missed work. Non-penalty extensions will be considered in the case of health issues or any circumstances outside of your control.

**Academic Integrity and the Honor Code:**

Academic integrity refers to honest and ethical behavior in all aspects of academic activity. This includes: not cheating on assignments (e.g., copying the work of others), not passing off someone else's ideas as your own (plagiarism), not engaging in dishonesty of any kind with regard to your class participation and assignments. Plagiarism is the *unacknowledged* use of another person's labor, another person's ideas, another person's words, or another person's assistance. ***Unless otherwise stated in class, all work done for courses is expected to be the individual effort of the student presenting the work.*** Any assistance must be reported to the instructor. If the work has entailed consulting other resources -- journals, books, or other media -- these resources must be cited in a manner appropriate to the course. Everything used from other sources -- suggestions for organization of ideas, ideas themselves, or actual language -- must be cited. Failure to cite borrowed material constitutes plagiarism. Undocumented use of materials from the World Wide Web is plagiarism. If you are caught plagiarizing or cheating, you will fail the assignment, and, depending upon the severity of the violation, you may fail the class. George Mason University has an Honor Code, which requires all members of this community to maintain the highest standards of academic honesty and integrity. Cheating, plagiarism, lying, and stealing are all prohibited. All violations of the Honor Code will be reported to the Honor Committee. See honorcode.gmu.edu for detailed information.

**Disability Accommodations:**

Disability Services at George Mason University is committed to providing equitable access to learning opportunities for all students by upholding the laws that ensure equal treatment of people with disabilities. If you are seeking accommodations for this class, please first visit <http://ds.gmu.edu/> for detailed information about the Disability Services registration process. Then please discuss your approved accommodations with me. Disability Services is located in Student Union Building I (SUB I), Suite 2500. Email: ods@gmu.edu | Phone: (703) 993-2474

**Official Communication via GMU Email**

Mason uses electronic mail to provide official information to students. Examples include communications from course instructors, notices from the library, notices about academic standing, financial aid information, class materials, assignments, questions, and instructor feedback. Students are responsible for the content of university communication sent to their Mason email account and are required to activate that account and check it regularly. In the event that class is canceled, I will notify you via email; this email will include information about making up the missed class.

**Technology**

The desktop computers in our classroom may be used during lab for data analysis. Assignments will be handed out in class or uploaded on Blackboard. Please check Blackboard and your email regularly. Regarding electronic devices in class (such as personal laptops, cell phones, etc.), please be respectful of your peers and your instructor and do not engage in activities that are unrelated to class. Such disruptions show a lack of professionalism and may affect your grade. Students must follow the university policy for [Responsible Use of Computing](http://universitypolicy.gmu.edu/policies/responsible-use-of-computing/).

**Enrollment**

Students are responsible for verifying their enrollment in this class. Schedule adjustments should be made by the deadlines published in the Schedule of Classes (available from the Registrar's Website: registrar.gmu.edu.). **Last Day to Add: August 29. Last Day to Drop without tuition penalty: September 6.** Drop period with 50% tuition refund**: September 7 – September 13**. Drop period with no refund: **September 14 – September 27.** Selective withdrawal period: **September 28 – October 24.** After the last day to drop a class, withdrawing from this class requires the approval of the dean and is only allowed for nonacademic reasons.

[**Diversity**](http://ctfe.gmu.edu/professional-development/mason-diversity-statement/)

George Mason University promotes a living and learning environment for outstanding growth and productivity among its students, faculty and staff. Through its curriculum, programs, policies, procedures, services and resources, Mason strives to maintain a quality environment for work, study and personal growth. George Mason University promotes a living and learning environment for outstanding growth and productivity among its students, faculty, and staff. An emphasis upon diversity and inclusion throughout the campus community is essential to achieve these goals. Diversity is broadly defined to include such characteristics as but not limited to, race, ethnicity, gender, religion, age, disability, and sexual orientation. Diversity also entails different viewpoints, philosophies, and perspectives. Attention to these aspects of diversity will help promote a culture of inclusion and belonging, and an environment where diverse opinions, backgrounds, and practices have the opportunity to be voiced, heard, and respected.

**Title IX**

Notice of a mandatory reporting of sexual assault, interpersonal violence, and stalking: As an instructor, I am designated as a “Responsible Employee”, and must report all disclosures of sexual assault, interpersonal violence, and stalking to Mason’s Title IX Coordinator per University Policy 1412. If you wish to speak with someone confidentially, please contact one of Mason’s confidential resources, such as Student Support and Advocacy Center (SSAC) at 703-380-1434 or Counseling & Psychology Services (CAPS) at 703-993-2380. You may also seek assistance from Mason’s Title IX Coordinator by calling 703-993-8730 or emailing cde@gmu.edu.

**Religious Holidays**

A list of religious holidays is available on the University Life Calendar page. See the [Religious Holiday Calendar](http://ulife.gmu.edu/calendar/religious-holiday-calendar/). Any student whose religious observance conflicts with a scheduled course activity should let me know in advance of the conflict date so that we can make alternative arrangements.

**University Resources and Support**

[The George Mason University Counseling and Psychological Services (CAPS)](http://caps.gmu.edu/) staff consists of professional counseling and clinical psychologists, social workers, and counselors who offer a wide range of services (e.g., individual and group counseling, workshops, and outreach programs) to enhance students’ personal experience and academic performance. Counseling Center: Student Union I, Room 364, 703-993-2380. Website [here](http://www.gmu.edu/departments/csdc/).

[The George Mason University Writing Center](http://writingcenter.gmu.edu/) staff provides a variety of resources and services (e.g., tutoring, workshops, writing guides, handbooks) intended to support students as they work to construct and share knowledge through writing. University Writing Center: Robinson Hall Room A114, 703-993-1200. The writing center includes assistance for students for whom English is a second language.

[Student Support and Advocacy Center:](https://ssac.gmu.edu/) Offers educational programs and support services to help students address issues related to personal wellness, interpersonal violence, and alcohol and drug use. SSAC also assists students who are encountering life challenges or crises. Need support for yourself or worried about a peer? You can submit a referral [here](https://ssac.gmu.edu/support-request-and-referrals/).

[Learning Services:](https://learningservices.gmu.edu/) Provides a variety of experience based learning opportunities through which students explore a wide range of academic concerns. Services include support to students with learning differences, individual study skills counseling, individualized programs of study, and provision of tutoring resources. Presentations on a variety of academic skill topics are available to the university community. The programs are open to all George Mason University students free of charge. Services are confidential and use of these services does not become part of the student’s academic record.

[Center for Culture, Equity, and Empowerment](https://ccee.gmu.edu/): Leverages programs and services focused on advocacy and direct student support to strengthen equity and inclusion at George Mason University. Their three areas: [Student Access and Equity (SAE)](https://ccee.gmu.edu/sae/), [Student Engagement for Racial Justice (SERJ)](https://ccee.gmu.edu/serj/), and [LGBTQ+ Resources](https://ccee.gmu.edu/lgbtq-resources/), serve as resources to those in the Mason Community who seek to meaningfully engage and interact with people with different identities and intersections to co-create an equitable campus environment.

[University Career Services:](https://careers.gmu.edu/)Provides information on career choices, internships and employment, and graduate and professional school.

Don’t see what you need? Check out the [Stearns Center list of Student Support Resources on Campus](https://stearnscenter.gmu.edu/knowledge-center/knowing-mason-students/student-support-resources-on-campus/).