

Fall 2023

Introduction to Research Design & Analysis

PSYC 3510 | CRN 0000 | Section 000



The course syllabus provides a general plan for the course; deviations may be necessary.

Instructor

Matthew Babb, MA

mbabb4@gsu.edu

Email me directly, not through iCollege

Office: UL 1260

Office Hours: 11:30am – 12:30pm T/Th

No appointment needed during these hours!

Show up to discuss course material, ask questions or discuss research!

Face-to-Face Meeting

Location: Classroom South 226

Day: Tues. and Thurs.

Time: 9:00am – 11:00am

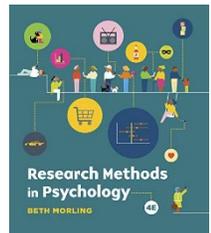
Required Materials

Textbook: Morling, B. (2021). Research Methods in Psychology (4th ed). New York, New York: WW. Norton & Company.

Calculator: Squared² and square-root functions required

InQuizitive: You also need to purchase access to the online platform called InQuizitive. This is where you will submit weekly online reading quizzes.

PollEverywhere: An account signed in at <https://www.pollev.com/mattbabb632>



Course Description

PSYC 3510 introduces research design, data analysis, and scientific communication as it relates to psychological research. We will cover topics such as research ethics, hypothesis testing and design, descriptive data collection, data analysis and interpretation, correlation and regression, chi-square tests, and t-tests. This class will be a lecture style course and the concepts taught in lectures will be assessed during in-class activities and other assessments.

Course Goals

- Understand and apply concepts of research design and data analysis.
- Interpret results from data analysis to answer psychological research questions.
- Use common terms used in psychological research and analysis.
- Visualize and present psychological research results.
- Understand statistical significance and what constitutes good and sound research.

Main Points of Syllabus

- **Exam Dates:** 8/31, 9/14, 9/28, 10/12, 10/26, 11/9, 11/30, Final: 12/10 @ 9
- **Grade Breakdown:** Participation (15%), Quizzes (15%), Workshops (20%), Unit Exams (30%), Final Exam (20%)

Fall 2023

Prerequisites

- MATH 1070, 1101, 1111, 1113, 1220, and/or equivalent with a C or higher

Degree Requirements

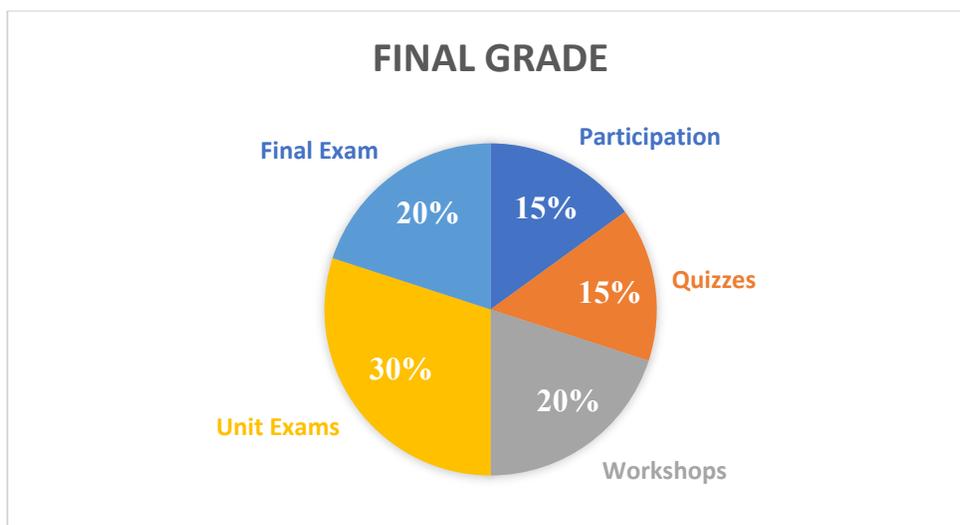
- Passing this class with a grade of C or higher is required for both the B.A. and B.S. in Psychology. Failure to pass PSYC 3510 with a C or higher will prevent you from graduating with a degree in Psychology and enrolling in any departmental courses for which PSYC 3510 is a prerequisite.

Course Organization and Schedule

- Lectures occur on Tuesday and Thursday
- Exams will always occur on Thursdays and there are a total of 7 exams.
- Reading quizzes are due every Monday by 11:59pm
- Workshops are due every other Friday by 11:59pm

Monday	Tuesday	Wednesday	Thursday	Friday
Reading Quiz due @ 11:59pm	Lecture @ 9:00am	New Reading quiz opens @ 8:00am	Lecture @ 9:00am	Workshop due @ 11:59pm Every other week!

Your Grade and Assessments



Final Exam (20%): This class has one final exam on December 10th, 2023 @ 9:00am in Classroom South Room 226. This Exam will be cumulative for the entire course and will cover material from all 7 Units. If you are unable to make this Final Exam time because it overlaps with another class Final Exam, please email me by November 10th (1 month before the exam) to set up an alternative time. You will need to provide proof of the other class's final exam.

Fall 2023

Unit Exams (30%): This class covers seven (7) units across the topics of research design and statistics and therefore we will have seven (7) unit exams. Unit exams occur on the final Thursday of the unit. Your two lowest unit exam grades will be dropped from your final grade; however, traditionally the units in this class do get progressively more difficult, so I urge you to try to succeed as early as you can.

Reading Quizzes (15%): Each week you will be required to submit an online reading quiz through the InQuizitive platform for a total of 12 reading quizzes. The quizzes open on Wednesday at 8:00am and will close on the following Monday at 11:59pm. The InQuizitive platform allows you to retake quizzes as many times as possible before the Monday deadline, which means you can score a 100 on every quiz. Your two lowest reading quizzes will be dropped from your final grade and thus there will no be make-up options for a quiz after the Monday deadline (See make-up policy).

Workshops (20%): The purpose of the workshops is to give you practice for the unit exams and final exam. These workshops require quite a bit more time than the quizzes, so be sure to start early. Unlike the reading quizzes, you only have one attempt to answer the workshop questions and your answers are graded on correctness. However, I am more than happy to give help and answer questions about the workshops in office hours or if we have time on a Thursday class before they are due.

Workshops open on Tuesday at 11:00am after the first class in the unit and must be submitted by Friday at 11:59pm the day after the unit exam. I recommend starting early and working through them slowly throughout the two weeks for good practice before the unit exam. Your two lowest workshop grades will be dropped from your final exam and thus there will be no make-up options for workshops.

Participation (15%): I believe the best way to succeed in a class and learn the material is to show up and give effort. Therefore, I will be rewarding participation as a part of your final grade. My hope is that everyone receives a 100 on their final participation grade. Participation is based on effort not correctness. To assess participation, each class will have 4 PollEverywhere questions dispersed throughout the 1.5 hour class period. To receive full credit for the day you must answer all 4 questions. There are a total of 21 classes, but to receive a 100 on participation, you only need to be present for 18 classes which allows you to miss some classes for extenuating circumstances. If you answer PollEverywhere questions for another peer, that is classified as Academic Dishonesty, and if caught, you will receive a 0 on participation for the day. You must be present in the classroom to answer the questions. If you are caught answering questions from outside the classroom, you will receive a 0 on participation for the entire class.

Grading Scale

Please keep in mind - you need a grade of C or higher to advance to PSYC 3530 and continue as a Psychology major!!!

Grade Percentage	Points [Total: 1000]	Letter Grade	Grade Points
97 - 100	970 - 1000	A+	4.3
93 - 96.9	930 - 969	A	4.0
90 - 92.9	900 - 929	A-	3.7
87 - 89.9	870 - 899	B+	3.3
83 - 86.9	830 - 869	B	3.0
80 - 82.9	800 - 829	B-	2.7
77 - 79.9	770 - 799	C+	2.3

Fall 2023

73 – 76.9	730 – 769	C	2.0
70 – 72.9	700 – 729	C-	1.7
60 – 69.9	600 – 699	D	1.0
0 – 59.9	0 – 599	F	0.0

Class Schedule

August				
Monday	Tuesday	Wednesday	Thursday	Friday
	8/22 FDOC! Lecture – Introduction to Syllabus and Data	8/23	8/24 Lecture – Psychology as a Science Reading – CH 1	8/25
8/28 Reading Quiz 1 due @ 11:59pm	8/29 Lecture – Sources of Information Reading – CH 2	8/30	8/31 UNIT 1 EXAM: Psychology and Sources of Information	9/1 Workshop1 due @ 11:59pm
September				
9/4 Reading Quiz 2 due @ 11:59pm	9/5 Lecture – Claims and Validity Reading – CH 3	9/6	9/7 Lecture – Ethical Guidelines	9/8
9/11 Reading Quiz 3 due @ 11:59pm	9/12 Lecture - Ethical Guidelines and Math Reading – CH 4	9/13	9/14 UNIT 2 EXAM: Validity, Reliability, and Ethics	9/15 Workshop2 due @ 11:59pm
9/18 Reading Quiz 4 due @ 11:59pm	9/19 Lecture – Good Science: Methodologies Reading – CH 5-6	9/20	9/21 Lecture – Surveys and Observations	9/22
9/25 Reading Quiz 5 due @ 11:59pm	9/26 Lecture – Sampling Procedures Reading – CH 7	9/27	9/28 UNIT 3 EXAM: Methodologies and Sampling	9/30 Workshop3 due @ 11:59pm

Fall 2023

October				
10/2 Reading Quiz 6 due @ 11:59pm	10/3 Lecture – Hypothesis Testing Reading – Morling pp 514-518	10/4	10/5 Lecture – Statistical Distributions	10/6
10/9 Reading Quiz 7 due @ 11:59pm	10/10 Lecture – Chi-Square Reading – iCollege Doc	10/11	10/12 UNIT 4 EXAM: Hypothesis Testing and Statistics	10/13 Workshop4 due @ 11:59pm
10/16 Reading Quiz 8 due @ 11:59pm	10/17 Lecture – Measures of Central Tendency	10/18	10/19 Lecture – Variability and Probability	10/20
10/23 Reading Quiz 9 due @ 11:59pm	10/24 Lecture – t-Tests and z- Scores Reading – Morling pp. 478-480	10/25	10/26 UNIT 5 EXAM:	10/27 Workshop5 due @ 11:59pm
10/30 Reading Quiz 10 due @ 11:59pm	10/31 Lecture – Bivariate Correlation Reading – CH 8 and Morling 585-587	November		
		11/1	11/2 Lecture – Pearson Correlation	11/3
11/6 Reading Quiz 11 due @ 11:59pm	11/7 Lecture – Simple Regression Reading – iCollege Doc	11/8	11/9 UNIT 6 EXAM: Correlation and Regression	11/10 Workshop6 due @ 11:59pm
11/13 Reading Quiz 12 due @ 11:59pm	11/14 Lecture – Multivariate Correlation Reading – CH 9	11/15	11/16 Lecture – Correlation Review	11/17

Fall 2023

11/20	11/21 No Class Thanksgiving Break	11/22	11/23 No Class Thanksgiving Break	11/24
11/27 No Reading Quiz!!	11/28 Lecture – Experimental Design Reading – CH 10	11/29	11/30 LDOC!! UNIT 7 EXAM: Correlation and Exp. Design	12/1 Workshop7 due @ 11:59pm
12/10 FINAL EXAM @ 9:00am Classroom South 226				

Course Policy

Late Policy

Reading quizzes and unit exams **cannot** be submitted late. Failure to complete these assignments by the due date will result in a 0 for that given assignment. Workshops can be submitted **up to 3 days late** (by Monday 11:59pm). For each day the workshop is late, I will deduct 10 points from the final grade.

Make-up Policy

Once the due date for each assignment, including reading quizzes, workshops, and unit exams has passed there will be **NO make-up options available**. I will be dropping your lowest two reading quizzes and your lowest two exam grades, so if you miss one because of an unexpected event, such as an accident or illness, it will not count against you. If you have multiple emergencies that cause you to miss more than two unit exams, I will need to see documentation of the emergency via e-mail **within 24 hours** of the exam. Such documentation must not contain any personal medical or legal information. If I can confirm that you missed the exam for a valid reason, you *may* be able to take an alternative assessment. Fraudulent documentation of excuses is academic dishonesty and will be reported to the College of Arts and Sciences.

The reading quizzes through InQuizative will open at 8:00am on Wednesdays and will close at 11:59pm the following Monday. In addition, InQuizative allows you to retake these quizzes until you achieve a 100%, so there will be no make-up options after a quiz deadline has passed.

Withdrawals

You may withdraw from this class at any point prior to **October 10th, 2023** in order to receive a W for your grade. Dropping the course after this date will result as a WF on your transcript. (Note: A grade of WF is treated as an F for GPA calculation purposes).

Rounding Policy

All grades are final and no rounding of final grades will occur.

Fall 2023

Course Evaluation

One of my main goals as a professor is to improve my teaching ability. To do this, it is paramount that you help provide me with feedback about my course. We will have two course evaluations, one in the middle of the semester and one at the end of the semester. If over 80% of the class completes the mid-semester evaluation, I will add +1 bonus point to everyone's highest Unit Exam score.

Academic Honesty

All students are expected to know and follow the policies for academic honesty that is published in the GSU Student Handbook Code of Conduct. You may obtain a copy of this handbook online at <https://studenthandbook.gsu.edu>. You are expected to know the University's standards of academic honesty and are responsible for abiding by these standards. Lack of knowledge of these standards is not an acceptable defense for academic misconduct.

Plagiarism: Presenting another person's work as your own, whether or not doing so was intentional - please see the Psychology Department definition of plagiarism below.

Cheating on examinations: Giving or receiving unauthorized help before, during, or after an examination.

Unauthorized collaboration: Submitting academic work, whole or in part, as your individual effort when it has been developed in collaboration with another person or source.

Falsification: Misrepresenting material or fabricating information in order to gain an unfair advantage over others.

Multiple submissions: Submitting the same work, whole or in part, for credit more than once without the explicit consent of the faculty member(s) to whom the material is submitted.

Fraud: e.g. Providing a falsified excuse form or signing in for an attendance recording for another student when he/she is absent.

All members of this class are expected to report violations of academic conduct to the appropriate authorities. The penalty for academic misconduct in this course will be a failing grade on the assignment in question. Signing in for another student for the purpose of attendance is also against the GSU Student Handbook Code of Conduct. The penalty for signing in for another student is a failing grade for the Participation portion of your grade, no matter how many times the infraction occurs.

GSU Department of Psychology Definition of Plagiarism

If a student uses or relies on others' work in preparing any academic materials (e.g. written assignments, posters, presentations) the student must cite the source correctly according to the directions provided by the instructor. Failure to do so is plagiarism. Copying and pasting even part of a sentence or phrase is plagiarism, even when the source is cited correctly. Paraphrasing a source in a way that copies the phrase or sentence structure of a source is also plagiarism. To avoid plagiarism, students are expected to properly paraphrase others' ideas.

Quotes in scientific writing should only be used when the wording of the original source is critical to the student's argument. Whether quoting is appropriate in a given instance is at the discretion of the instructor, not the student.

Accommodations for Disabled Students

Fall 2023

Students who wish to request accommodation for a disability may do so by registering with the Access and Accommodation Center. Students may only be accommodated upon issuance by the Access and Accommodation Center of a signed Accommodation Plan and are responsible for providing a copy of that plan to instructors of all classes in which accommodations are sought. This policy also applies to pregnant students.

Policy on Sexual Misconduct

In instances of sexual misconduct, the present instructor(s) and teaching assistants, are designated as Responsible Employees who are required to share with administrative officials all reports of sexual misconduct for university review. If you wish to disclose an incident of sexual misconduct confidentially, there are options on campus for you do so. For more information on this policy, please refer to the Sexual Misconduct Policy which is included in the Georgia State University Student Code of Conduct (<http://codeofconduct.gsu.edu/>).

Student Records for FERPA

Faculty are expected to handle student information in accordance with the Family Educational Rights and Privacy Act (FERPA) (20 U.S.C. § 1232g; 34 CFR Part 99), a Federal law that protects the privacy of student education records. Unless a student is legally dependent, the university is prohibited by FERPA from releasing student account information to a parent or guardian or other unauthorized third party without the student's consent. Faculty may not divulge grades, enrollment, medical information, etc. to an unauthorized third party (including parents) without a signed waiver from the student. Faculty can access additional information through [Student Records/FERPA](#). Students who wish to authorize an individual to have access to their student records should complete the Family Educational Rights and Privacy Act Waiver in the Dean of Students office.