

# PSYC 3435: Principles of Research for the Behavioral Sciences (online)

Spring 2017

## Contact info

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## Course description

This laboratory course is designed to introduce students to the philosophy of scientific inquiry with an emphasis on experimental methodology. This will be accomplished via a combination of traditional lectures along with an application of principles through laboratory experimentation and demonstration. Essentially, we will cover the "nuts and bolts" of putting together and completing a research project in psychology. To this end, we will cover all fourteen chapters of the textbook. All students enrolled in this course are required to have **previously taken** PSYC 3309 (Writing in Psychology) and PSYC 3330 (Statistics).

## Course materials

- *The Process of Research in Psychology* (3rd ed.) by McBride (2015) [Amazon link](#)
- *APA Publication Manual* (6th ed.) [Amazon link](#)
- JASP statistical software (free download from [jasp-stats.org](http://jasp-stats.org))

## Student learning outcomes

1. Describe advantages of the scientific method compared to other approaches
2. Identify various research designs and uses of each
3. Conduct library research
4. Paraphrase and cite material from primary sources
5. Develop a research question and write hypotheses appropriate for it

6. Design and conduct a research project to test hypotheses
7. Analyze data collected from research using computer software
8. Communicate the findings of research as a complete APA style manuscript

## Requirements and grading

There will be three exams throughout the semester. Exams are due by 11:59 pm on the due date. Each exam will have a time limit and may only be attempted once. Note that the final exam (Exam 3) is comprehensive.

Exam dates:

- Exam 1, due Sunday, March 5
- Exam 2, due Sunday, April 16
- Exam 3, due Sunday, May 7

## Unit quizzes (14% of grade)

At the completion of each unit, there will be a short quiz covering the main content. Each quiz is worth 10 points (for a total of 100 possible quiz points for the semester). Each quiz will be timed and may only be attempted once, and is due by 11:59 pm on the due date.

## Lab assignments (14% of grade)

There will be four lab assignments this semester. Each assignment is designed to give you first hand experience with essential research skills, such as conducting an experiment, collecting data, and writing up an APA manuscript. Except for Lab 1 (an APA exercise), each of you will administer a short experiment, collect some data, analyze the collected data for the class, and compose an APA manuscript based on the experiment and the results.

Lab Assignments and dates

- Lab 1 – APA formatting (10 points), due Friday, Feb 3
- Lab 2.1 – Correlational design, data collection (10 points), due Friday, Feb 10
- Lab 2.2 – Correlational design, analysis and report (20 points), due Friday, Feb 24
- Lab 3.1 – Independent groups design, data collection (10 points), due Friday, Mar 3
- Lab 3.2 – Independent groups design, analysis and report (20 points), due Friday, Mar 24
- Lab 4.1 – Factorial design, data collection (10 points), due Friday, Apr 7
- Lab 4.2 – Factorial design, analysis and report (20 points), due Friday, Apr 21

## Course Communication

I am your primary resource for this course. I AM an experimental psychologist, so I do the stuff I teach about daily. Hence, my primary interest is for you to learn this material and do well in the course. If you have a question, always feel free to stop by my office and visit. If you require electronic communication, email is best, but you may also send me a Blackboard message. Just keep in mind that I don't get any notifications of Blackboard messages, so I may not see your message until I next log into the course.

## University Policy on "F" Grades

Beginning in Fall 2015, Tarleton will begin differentiating between a failed grade in a class because a student never attended (F0 grade), stopped attending at some point in the semester (FX grade), or because the student did not pass the course (F) but attended the entire semester. These grades will be noted on the official transcript. Stopping or never attending class can result in the student having to return aid monies received. For more information see the Tarleton Financial Aid website.

## Academic Honesty

Tarleton State University expects its students to maintain high standards of personal and scholarly conduct. Students guilty of academic dishonesty are subject to disciplinary action. Cheating, plagiarism (submitting another person's materials or ideas as one's own), or doing work for another person who will receive academic credit are all disallowed. This includes the use of unauthorized books, notebooks, or other sources in order to secure or give help during an examination, the unauthorized copying of examinations, assignments, reports, or term papers, or the presentation of unacknowledged material as if it were the student's own work. Disciplinary action may be taken beyond the academic discipline administered by the faculty member who teaches the course in which the cheating took place.

In particular, any exam taken online must be completed without the aid of any unauthorized resource (including using any search engine, Google, etc.). Authorized resources are limited only to the official textbook and any lecture notes from the course. Any other authorized resources will be provided to you before the exam. The minimum sanction for violation of this policy is a grade of 0 on the affected exam.

Each student's honesty and integrity are taken for granted. However, if I find evidence of academic misconduct I will pursue the matter to the fullest extent permitted by the university. **ACADEMIC MISCONDUCT OR DISHONESTY WILL RESULT IN A GRADE OF F FOR THE COURSE.** Students are strongly advised to avoid even the *appearance* of academic misconduct.

## Students with Disabilities Policy

It is the policy of Tarleton State University to comply with the Americans with Disabilities Act and other applicable laws. If you are a student with a disability seeking accommodations for this course, please contact Trina Geye, Director of Student Disability Services, at 254.968.9400 or geye@tarleton.edu. Student Disability Services is located in Math 201. More information can be found at [www.tarleton.edu/sds](http://www.tarleton.edu/sds) or in the University Catalog.

**Note: any changes to this syllabus will be communicated to you by the instructor!**

## Semester schedule

Unit	Dates	Topic
0	Jan 17-29	Statistics review
1	Jan 30-Feb 5	Knowing in psychological science
2	Feb 6-12	Reading the literature / APA style
3	Feb 13-19	Basic research methods
4	Feb 20-26	Ethics in psychological science
-	Feb 27-Mar 5	<b>Exam 1 (due Mar 5)</b>
5	Mar 6-12	Experiments: selecting and manipulating variables
-	Mar 13-19	<b>Spring Break</b>
6	Mar 20-26	Experiments: sampling methods
7	Mar 27-Apr 9	Experiments: classic designs
-	Apr 10-16	<b>Exam 2 (due Apr 16)</b>
8	Apr 17-23	Non-experiments: survey and correlational designs)
9	Apr 24-30	Non-experiments: quasi-experiments and developmental designs (Ch 12,13)
-	May 1-7	<b>Exam 3 (due May 7)</b>