

PSY 5391: Graduate Research Design
Fall 2018, CRN: 13528 (Section 001), 13529 (Section 002)
(August 26th – December 13th)

Syllabus

Instructor: Dr. Tooley
Email: ktooley@txstate.edu
Office: UAC 248
Phone: (512) 245-4384

Class Meeting Location: UAC 206
Class Meeting Times: Mondays and Wednesdays, 9:30-10:50 (Sec. 1) or 11:00-12:20 (Sec. 2)

Office Hours: Tuesdays 2:00-4:00 PM and by appointment

Recommended Text:

Mitchell, M. L. & Jolley, J. M., (2013). *Research design explained* (8th ed.). Belmont, CA: Wadsworth Cengage Learning. ISBN-13: 9781133049838 | ISBN-10: 1133049834

Class Web site: Links to this syllabus, readings, grades, assignments, and class announcements can be accessed through **TRACS**.

Course Objectives:

The purpose of this course is to learn about the process of psychological research in its various forms and to acquire the critical thinking skills necessary to read, think, and write about published research findings. After successful completion of this course, you should be able to:

- 1) Understand the ethical issues in research and know what constitutes *ethical* research.
- 2) Understand the various types of research methods used in psychology, and know when each method is most appropriate.
- 3) Properly design a psychological research project.
- 4) Read and think critically about research findings.
- 5) Interpret results and report research findings in APA format.

Attendance Policy: Students are expected to attend class every day. Students are responsible for learning any material that they miss on their own time. Students who miss class, and do not provide a timely and warranted excuse (determined at the discretion of the instructor), will not be allowed to make up missed work. Any in-class activities (and points associated with these activities) cannot be made up, regardless of the reason for the absence.

Academic Honesty:

Cheating in any form will not be tolerated. If you are caught cheating, you will receive no points for the exam/assignment. In case you are unclear, academic honesty and cheating are thoroughly covered here: <http://policies.txstate.edu/university-policies/07-10-01.html>

Disability Accommodations:

If you have a documented disability that requires special accommodations, please provide me with the verifying paperwork within the first 2 weeks of class. Information on this can be obtained from: <http://www.txstate.edu/trec/attd/attd.html>

Reading Assignments:

You are required to do the assigned reading listed on the schedule below. In addition to the textbook, we will be reading, discussing, and writing about published research articles throughout the course of the semester. These readings will be available to you on TRACS or in class.

***Graded Work:**

Midterm Exam (15% of overall course grade)

There will be **1 midterm exam** focused on applying the course concepts. This exam will be open note/book (no internet) and will contain applied, essay style questions.

Assignments (25% of overall course grade)

Throughout the semester, there will be several assignments and paper rough drafts that will be graded. These should be turned in on time for full consideration (late work is only accepted when cleared with the instructor **beforehand**).

Class Participation (20% of your overall course grade)

Some class days will involve an in-class activity/discussion on the topics covered to help you solidify your knowledge. For each activity that you actively participate in, you will earn **full credit**. If you are not in class, or do not fully participate, you will receive **no credit**.

Research Talk Attendance (10% of your overall course grade)

You are required to attend at least 3 research talks given by the psychology department to help familiarize yourself with the research going on in the department. These can be brown bag talks (at noon in UAC 275 on 9/6, 9/20, 10/11, 10/25, 11/8, 11/22, & 12/6), job candidate talks (dates TBD), or invited speakers to the department (dates TBD).

Research Project (30% of course grade)

The grade for your research project will have two parts: (1) an oral presentation grade and (2) a research paper grade.

Oral Presentation of Research (10% of course grade):

Each student will have **15 minutes** to present their research project and findings, including:

- An explanation of the topic of interest, background theory, and previous research findings
- An explanation of the specific hypothesis/hypotheses
- An explanation of your Methodology including participants, design & operational definitions of variables, materials, and procedure used
- An explanation of the descriptive, graphical, and inferential statistical results
- An explanation of your interpretation of the results as they relate to your hypothesis, larger theory, and past research findings
- Thoughtful responses to questions from your instructor and peers

Individual Research Paper (20% of course grade):

Each student must also write an APA style research paper, reporting their study. The requirements for the research paper are as follows:

- Must be written according to **American Psychological Association (APA) format**
- Must use at least 8 peer-reviewed (primary-source) journal articles as sources

- 8-15 pages, double-spaced, in 12 point font (not including Title Page, Abstract, or References)
- Must not contain any plagiarism

Details about and a grading rubric for the research paper and presentation will be posted on the course TRACS site.

***NOTE: some graded work will be turned in via uploading documents to TRACS. All such work must be in either Word document (.doc or .docx) or PDF (.pdf) format.**

Your letter grade will be based upon your combined performance in the categories listed above, with the following grade cut-offs:

A (100% - 90%)

B (89% - 80%)

C (79% - 70%)

D (69% - 60%)

F (0% - 59%)

My planned schedule for the class is listed on the following page. This schedule **is subject to change**, but I will announce any changes that I make in class.

Date	Topic	Assigned Reading	Homework/ Assignment Due
8/26	Intro & Syllabus; Activity: Finding Research Articles & Reading Tips		<i>Talk to advisor about project</i>
8/28	Lecture: Scientific Study of Psych & Methodology Refresher	Ch. 1	<i>See above</i>
9/2	Labor Day- Class Does Not Meet		
9/4	Lecture: Ethics in Research	Ch. 2	<i>See above</i>
9/9	Lecture: IRB Application		<i>CITI certification due</i>
9/11	Activity: Mock IRB Review Session		<i>*Should have talked to advisor about project ideas by today</i>
9/16	Lecture: Theoretical Predictions & Generating Good Hypotheses	Ch. 3	<i>Meet with advisor about project idea</i>
9/18	Discussion: Theory & Hypothesis in Research Articles (Read assigned articles before class)	Ch. 4 & Assigned Articles	<i>Meet with advisor about project idea</i>
9/23	Lecture: Reliability & Validity in Research	Ch. 5-6 & 9	<i>see above</i>
9/25	Discussion: Critiquing Reliability and Validity of Published Articles (Read assigned articles before class)	Assigned Articles	<i>*Should have met with advisor to finalize project topic</i>

9/30	Lecture: Survey Research Techniques Activity: Generate Survey Topic/Questions	Ch. 8	<i>Work on proposal</i>
10/2	Activity: Implement survey in Qualtrics		<i>Work on proposal</i>
10/7	Lecture: Observational, Correlational, & Quasi-Experimental Methods	Ch. 7 & 14 (pgs. 583-602)	<i>Work on proposal</i>
10/9	Activity: Analyze survey data		(advisor approved) Project Proposal due
10/14	Lecture: Experimental Designs	Ch. 10-11	<i>IRB & Materials</i>
10/16	Feedback on proposals and materials plan		Survey Data Write-up due
10/21	Lecture: Factorial Designs	Ch. 12-13	<i>IRB & Materials</i>
10/23	Lecture: Within-Subs, & Mixed Designs	Ch. 12-13	IRB Application and all Materials due
10/28	Activity: Design & Analysis Challenge		
10/30	MIDTERM EXAM (CH. 3-13)		
11/4	Activity: Data Collection		<i>data collection</i>
11/6	Activity: Data Collection MEET IN LAB (008 in basement)		<i>data collection</i>
11/11	Data Collection/ Data Coding/Scoring & Analysis MEET IN LAB (008 in basement)		<i>Work on paper</i>
11/13	Data Coding/Scoring & Analysis MEET IN LAB (008 in basement)		<i>Work on paper</i>
11/18	Data Analysis MEET IN LAB (008 in basement)		<i>Work on paper</i>
11/20	Lecture: Drawing Conclusions, Paper Formatting & Presentation Basics	Ch. 15	<i>Work on paper (Rough Draft Due 11/24-TRACS)</i>
11/25	Activity: Peer-Review of Rough Drafts BRING 2 HARD COPIES OF PAPER TO CLASS		<i>work on presentation</i>
11/27	No Class- Thanksgiving Break		
12/2	Project Presentations		<i>(Revise paper)</i>
12/4	Project Presentations		<i>(Revise paper)</i>
12/7	Final Paper Due: CLASS DOES NOT MEET		<i>Final Paper Due on TRACS</i>