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Course Description

Individual instruction course for advanced and qualified undergraduates to obtain supervised research experience in psychology. Student will assist with a research project by working under the individual guidance of a psychology faculty member. Requirements may entail library research, data collection, data entry, statistical analysis and or assistance in planning and conducting parts of a research project. A final paper on the research experience is required. Consent of instructor required. May be repeated for a maximum of 6 semester credit hours. Prerequisites or corequisite: PSYC 2301 and PSYC 3488.

Course goals:

1. **Using Research Skills:** Locate relevant research, theory, and information necessary to plan, conduct, and interpret results of research studies.

2. **Formulating Hypotheses:** Formulate a testable hypothesis inspired by theory and/or data.

3. **Designing Experimental Studies:** Design basic studies to address behavioral or psychological questions using different research methodologies.

4. **Managing Data:** Under appropriate supervision, collect, analyze, and report data designed to answer a behavioral or psychological question.

5. **Applying APA Guidelines:** Apply APA ethical guidelines in the design, data collection, analysis, interpretation, and reporting of behavioral or psychological research.

6. **Understanding Different Research Methodologies:** Demonstrate knowledge of different research methodologies employed by psychologists, including an understanding of the appropriate use of various research designs for addressing different types of questions and hypotheses.

Course structure: This is not a typical course. This is a research lab and you will be helping to design, run, analyze data, and/or disseminate results from experiments. You are expected to attend lab meetings once a week, meet with your research team (if applicable), run participants, enter data, and any other activities that serve the lab's mission. You are expected to commit 3 weekly hours for every one credit of research experience over a 15 week period (or 15 hours/credit overall, regardless of number of weeks in term).

Internet support: You are expected to check your email frequently and stay in contact with other lab members. Email will be the primary method of contact among members of the lab (including Dr. Erickson), but texting may also be used in a limited fashion. Note that texting should not be used as a primary contact medium except for cases of urgency or emergency or while trying to coordinate an off-site event. WebEx, Zoom, Skype, and phone calls may also be incorporated into instruction and communication.

Grading policy: A substantial portion of the class revolves around running experiments and keeping up with the most recent published research. As a result, all grades are related to such. All students will start with As; however, failure to participate will result in a lowering of grades. Failure to participate is defined as such:

- Missing more than one experiment session (unexcused): -1 letter grade per session
- Missing more than three lab meetings (unexcused): -1 letter grade per meeting
- Failure to turn in lab work on time: -1 letter grade

Individual goals and timelines: As a student in this course, your lab work and session times will be determined by a timeline crafted by the professor and student in the beginning of the term, revisited and possibly refined in the middle of the term, and completed by the end of the term. Each student is expected to develop specific objectives, deliverables, and

experiences that align with the overall goal of their project and professional development (e.g., graduate school preparation). This timeline will serve as an addendum to this document extending the contract in those specific ways.

Meeting Schedule

Lab meetings will be held once per week at a time when all members are available at a location on campus to be determined. Although we will do our best to abide by this schedule, some topics and/or readings may carry over and others may end earlier than expected. Any topic changes will be announced via email. You are responsible for keeping up with any possible changes to the course schedule or meeting modality.

Week	Topic	Notes/Readings
1	Introductions, Welcome!	
2	Lab Policies, Ethics, and the IRB (CITI Training)	
3	Reading Group 1	
4	Designing Conference Presentations	
5	Id meeting 1	
6	ARMADILLO practice	
7	**ARMADILLO NO FULL MEETING**	
8	ARMADILLO reflection / Id meeting 2	
9	Reading Group 2	
10	Professional Development and Applying to Grad school	
11	**Catch-up/breather**	
12	Discussion of reflection paper / Id meeting 3	
13	Reading Group 3	
14	**THANKSGIVING NO MEETING**	
15	Semester Retrospective	
16	**Finals week**	Undergrads turn in final paper

Important deadlines:

- ARMADILLO submissions due early Fall
- AP-LS submissions due mid-Fall
- SWPA submissions due late Fall
- JagRISE/SRS submissions due early Spring
- Psychonomics submissions due Summer

ERiCO Lab list of conferences and journals we care about **Updated Fall 2020**

Conferences	Description	Website	Season
International			
Annual meeting of the Psychonomic Society ("Psychonomics")	The largest international association of cognitive scientists from psychology, neuroscience, linguistics, and computer science, etc.	https://www.psychonomic.org/	Late Fall
Annual meeting of the Society for Applied Research in Memory & Cognition ("SARMAC")	A meeting of cognitive psychologists and related disciplines who study ways to apply cognitive research and prinicples	http://www.sarmac.org/	Early Summer
National			
Annual meeting of the American Psychology-Law Society ("AP-LS")	Largest national (and alternating international) meeting of psychologists who research all intersections of psychology and law: eyewitness memory, interviewing, confessions, criminal behavior, victimization, repeat offending, etc.	https://ap-ls.org/	Early Spring
Regional			
Annual meeting of the Southwestern Psychological Association (SWPA, "Swah-pa")	A regional APA general meeting of psychological researchers in the Southern/Southwestern US.	http://www.swpsych.org/	Late Spring
Association for Research in Memory, Attention, Decision-Making, Intelligence, Language, Learning, and Organization ("ARMADILLO"; aka The Southwest Cognition and Cognitive Neuroscience Society)	A regional independent meeting of cognitive scientists in the Southwest US; Dr. Weatherford and I have been organizers in 2019 and 2020	n/a	Early Fall

Journals	Impact Factor
American Psychological Association	
Journal of Experimental Psychology: General	
JEP: Learning, Memory, & Cognition	
JEP: Applied	
Law and Human Behavior	
Psychology, Public Policy, and Law	
Psychology and Aging	
Psychonomic Society	
Psychonomic Bulletin & Review	
Memory & Cognition	
Behavior Research Methods	
Cognitive Research: Principles & Implications	
British Psychological Society	
Legal and Criminological Psychology	
Society for Applied Research in Memory and Cognition	
Journal of Applied Research in Memory and Cognition	
European Association of Psychology and Law	
Psychology, Crime, & Law	
Australian and New Zealand Association of Psychiatry, Psychology and Law (ANZAPPL)	
Psychiatry, Psychology and Law	
Forensic Science Society	
Science & Justice	
Experimental Psychology Society	
Quarterly Journal of Experimental Psychology	
Public Library of Science	
PLOS ONE	
(Unaffiliated)	
Memory	
Applied Cognitive Psychology	

Up-to-date list of Law and Psychology Journals with rankings: https://lawpsych.asu.edu/journal-rankings