Learning Processes Lab – 01:830:312:07 LEARN PROCESSES LAB 07 F18

Instructor: Jennifer Francesconi

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Office hours: Before/After class and by appointment.

Class meeting time/place:**Fridays 12:00pm – 3:00pm** - Busch Campus, Psychology building, room 361A
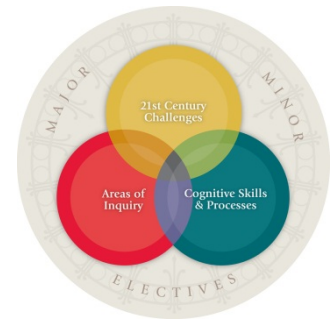
Textbook: None. Required readings will be provided on sakai throughout the semester

The aim of this course is to acquaint students with scientific research within the context of learning psychology. Upon successful completion of this course, students will

- have a basic understanding of methods and techniques used in animal conditioning research
- understand the procedures for collecting data in animal conditioning research
- be able to use basic statistics and statistical software to analyze data
- be able to interpret the results of the statistical analyses
- produce an APA-style empirical paper.

This course has been certified as satisfying four of the Writing and Communication Learning Outcome Goals (including WCR and WCD) of the SAS Core Curriculum. Specifically, students will be able to:

a) Respond effectively to editorial feedback from peers, instructors, and/or supervisors through successive drafts and revision (WCR);
b) Communicate effectively in modes appropriate to a discipline or area of inquiry (WCD);
c) Evaluate and critically assess sources and use the conventions of attribution and citation correctly;
d) Analyze and synthesize information and ideas from multiple sources to generate new insights.

Schedule for the class:

Date:	Material Covered:	Due:
9/14/18 WEEK 1	Course Introduction, OSHA surveys, Plagiarism APA: Overview, Title page, Abstract, Introduction Introduction to Experiment 1	**-Animal Orientation training due***
9/21/18 WEEK 2	Experimental Design, Care and Handling of Lab Animals APA: Method Section & Results How to conduct a literature search for a research article Meet with presentation group to research an article (~25 minutes) Data Collection Experiment 1 week 1	- Read articles for Exp. 1 (Poucet, 1986; Poucet, 1988; Shukitt-Hale, 2001)

9/28/18 WEEK 3	****Quiz 1**** Data Collection Experiment 1: Week 2	
10/5/18 WEEK 4	APA: Figures, Discussion, References Brief meet with presentation group to discuss (~20 minutes) Review of Statistics Review Experiment 1 articles SPSS (analyze data in groups) Review Data for Experiment 1 Intro to Experiment 2	**-Experiment 1 Critical Reflection due by 11:59pm 10/4/18***
10/12/18 WEEK 5	**Lab Report Due via Sakai: Experiment 1 (Results/Discussion)** **** Quiz 2**** Data Collection Experiment 2: Week 1	**- Lab Report 1 due by 11:59pm.** **-** Read articles for Exp. 2
10/19/18 WEEK 6	Review Experiment 2 Articles Data Collection Experiment 2: Week 2	**-Experiment 2 Critical Reflection due by 11:59pm 10/18/18**
10/26/18 WEEK 7	**Lab Report Due via Sakai: Experiment 2 (Intro & Methods)** SPSS (analyze data in groups) Review Data for Experiment 2 Introduction to Experiment 3	**- Lab Report for Exp. 2 due by 11:59pm 10/26/18**
11/2/18 WEEK 8	Data collection Experiment 3: Week 1 **** Quiz 3****	-Read articles for Exp. 3
11/9/18 WEEK 9	**No Class**	
11/16/18 WEEK 10	Data collection Experiment 3: Week 2	
11/23/18 WEEK 11	**No Class**	**-Final Lab Report for Exp. 2 due by 11:59pm 11/23/18** - Read articles for Exp. 3
11/30/18 WEEK 12	Review Experiment 3 articles Review Data for Experiment 3	**-Experiment 3 Critical Reflection due by 11:59pm 11/29/18**
12/7/2018 WEEK 13	SPSS (analyze data in groups) Review Data for Experiment 3 Peer-Review of Lab Report 3	

12/14/18 WEEK 14	**Full Lab Report Due via Sakai: Experiment 3**	**-Lab report for Exp. 3 due by 11:59pm 12/14/18**

Allocation of course points:	
Lab Report 1	**15**
Lab Report 2	**15**
Lab Report 3	**30**
Participation/Attendance	**10**
Quizzes	**15 (5 points each)**
Presentations	**6**
Critical Reflections	**9 (3 points each)**

Academic Integrity:
- You are required to abide by the Rutgers policy on academic integrity; please familiarize yourself with this policy, you can view it at http://academicintegrity.rutgers.edu/integrity.shtml
- Plagiarism is a violation of academic integrity (1st time: warning + 30% penalty, 2nd time: report to academic integrity + 100% penalty). Lab reports will be checked for plagiarism using "Turnitin"

Participation:
- Participation in the form of contributing to in-class discussions is expected.
- Being attentive and respectful during lectures and particularly during your peers' presentations are also expected. That means no cell phone use please!
- Questions/comments during lecture or presentations are strongly encouraged.
- Students will also participate by writing three critical reflections (see explanation below).

Attendance:
- Attendance in this class is critical to the success of the experiments, and therefore, mandatory.
- Any unexcused absence will take one point away from the attendance points.
- You will also have .5 pts deducted for a late arrival to class.
- Arriving more than 20 minutes late to class will be counted as an unexcused absence.
- **Any unexcused absence during the data collection of any experiment will result in failure to receive credit for that lab report.**
- An absence will be excused *only* with a note from the Dean's office. You are responsible for any information you missed.

Lab Reports:
All lab reports must be computer generated following the format presented in class (APA). Lab reports should be submitted on Sakai (Assignments). Students submitting reports late will lose 10% of the points for that report for each day it is late. Remember, **if you have an unexcused absence during the week of an active experiment, it will result in a failure to receive credit for that lab report.**

Peer Review:
Students will conduct peer review sessions throughout the semester. The goal of these sessions is to practice your newly developed scientific writing skills by providing constructive feedback to your fellow classmates' lab reports.

Presentations:
Students will work in groups in order to present a relevant article of the group's choice to their fellow classmates. All students are expected to equally contribute both in the creation and presentation of the article. Presentations should be roughly 15 minutes in length and presented via PowerPoint. The emphasis on these presentations is not only properly summarizing the article, but to also present your group's critical reaction to the paper.

Quizzes:
Quizzes will be held during the first 15-20 minutes of class at 3 points during the semester. These quizzes may be based on the articles for each experiment, APA style, and/or the basic statistics used with our data throughout the semester. If you are late on the day of a Quiz, you will ONLY be allotted the remaining time to complete the quiz. If you arrive after the quiz has finished, you will receive an automatic zero for that quiz.

Critical Reflections:
Each experiment (3 experiments total) we conduct in class is assigned three scientific journal articles to be read by the student. For the critical reflections, you may choose one of the three articles assigned for that experiment and write your critical reaction to the article. **Please do not just summarize the article**; that is not a critical reflection. A critical reaction may include: your critique of the study, limitations and/or strengths of the study, suggestion of future research, and reflecting upon the study's implications. Each critical reflection should be at least one page in length (double-spaced). These assignments will be submitted on Sakai (Assignments). Because these assignments are aimed to promote in-class discussion of the articles, **no late assignments will be accepted**.

Mistreating or mishandling of the rats will result in a dismissal from the class and an 'F'. There are no excuses and no exceptions.