

Research Methods and Design I
PSY 390(4) 391(4): Section 2
Spring Semester 2018
M W F 10:55-12:05
Final Exam: W 4:30-6:30 (Colt Forum)
Location: T312

Instructors: Brooks Carder, Ph.D. and Kim W. Schaeffer, Ph.D.

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Tutoring Hours: TU & TH: 1245-245 (appointments must be made 24 hours in advance)

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Course Description

PSY 390: Students gain experience in methods of design, data collection, management, and analysis. Students begin a significant research project. This course must be taken in the semester immediately preceding PSY391. Prerequisite(s): PSY103 and MTH203 (may be taken concurrently or with the consent of instructor).

PSY 391: Study of design and of research in psychology and the use of statistics. Practice in the integration of design and statistics is included. Students finish a significant research project. This course must be taken in the semester immediately following PSY 390. Prerequisite(s): PSY 103 and PSY 390 or consent of instructor.

Course Learning Outcomes in PSY 390-391: Upon completion of this course you will be able to:

- Solve real-life, practical problems using psychological science and the scientific method.
- Understand and interpret statistical research findings that are presented in writing, in numerical form, or as tables or figures.
- Apply statistical concepts in clinical and non-clinical applications to optimize vocational performance. This includes being able to interpret clinical test scores, analyze business and financial performance, and empirically assess decision making outcomes.
- Critically evaluate research claims made by academics, business professionals, and media figures by formulating alternative hypotheses, generating alternative explanations, and designing follow-up and replication studies.
- Identify and remediate potential problems in empirical and non-empirical research. This includes recognition of incomplete literature reviews, design flaws, poorly formed hypotheses, ethics violations, incorrect statistical execution and inference, and unsupported conclusions.
- Write a research proposal and submit it to an institutional review board.
- Present the results of empirical research to professional and lay audiences using written, oral, and visual expression. This includes being able to write a research paper using APA style, construct a poster for a research conference, and present research in a brief oral presentation with visual aids.

Reading in PSY 390-391

Employers want employees who are good critical thinkers. According to Diane Halpern (2003), there are 4 aspects to critical thinking: (a) a critical thinking attitude, e.g., not accepting claims at face value; (b) the capacity to implement specific critical thinking skills, e.g., deductive reasoning, hypothesis testing, understanding probability; (c) the facility to apply these critical thinking skills to new situations; and (d) the skill to think about one's own thinking, or metacognition. We will use a significant portion of our class time for activities that will enhance your critical thinking skills. It is imperative that you read and study the reading assignment before coming to class.

Working in Teams in PSY 390-391

This course employs the Team Based Learning (TBL) method. “Team-Based Learning is an evidence based collaborative learning teaching strategy designed around units of instruction, known as “modules,” that are taught in a three-step cycle: preparation [completing the assignment before class], in-class readiness assurance testing [RATs, basically quizzes on the assignment], and application-focused exercise [Team Application Exercises].” The fourth essential component of TBL is the Team Member Helpfulness Evaluation (both formative and summative).

Required Textbook

Mitchell, M. L., & Jolley, J. M. (2013). *Research design explained* (8th ed.). New York: Thomson-Wadsworth.

How Grades Will Be Earned (A = 93-100; A- = 90-92.99; B+ = 88-89.99; B = 84-87.99; B- = 80-83.99; C+ = 77-79.99; C = 70-76.99; C- = 65-69.99; D+ = 62-64.99; D = 55-61.99; D- = 50-54.99; F ≤ 49.99%)

15% Readiness Assurance Tests (RATs)

15% Team Application Exercises

5% Team Member Helpfulness Evaluation (peer-graded)

40% Tests 1-4

15% Homework

10% IRB Proposal

Note: Final Examination. Minus 10% in overall grade if not present

Managing Your Life and This Course

If you cannot take a test due to extreme circumstances, please ask me for permission to take the test at another time before the exam.

Most people need to miss a class due to illness, flight delays, and so on. Therefore, a safety valve is built into the course. For the safety valve to become effective two conditions are met. First, cell phones are put away, and second, 90% of the class completes the IDEA course evaluation the first week it is posted.

Safety Valve: The four lowest Team Application Exercises, two lowest Homework scores, and two lowest RATs, will be dropped.

Academic Honesty

Students should demonstrate academic honesty by doing original work and by giving appropriate credit to the ideas of others. Academic dishonesty is the act of presenting information, ideas, and/or concepts as one’s own when in reality they are the results of another person’s creativity and effort. A faculty member who believes a situation involving academic dishonesty has been detected may assign a failing grade for that assignment or examination, or, depending on the seriousness of the offense, for the course. Faculty should follow and students may appeal using the procedure in the university Catalog. See [Academic Policies](#) for definitions of kinds of academic dishonesty and for further policy information.

Late Assignments

You can turn in a late assignment for up to seven days. The TA will deduct ten percent for lateness and ten percent each additional day the assignment is late.

PLNU Mission

To Teach ~ To Shape ~ To Send

Point Loma Nazarene University exists to provide higher education in a vital Christian community where minds are engaged and challenged, character is modeled and formed, and service is an expression of faith. Being of Wesleyan heritage, we strive to be a learning community where grace is foundational, truth is pursued, and holiness is a way of life.

FINAL EXAMINATION POLICY

Successful completion of this class requires taking the final examination **on its scheduled day**. The final examination schedule is posted on the [Class Schedules](#) site. No requests for early examinations or alternative days will be approved.

NOTE: The following policies are to be used without changes:

PLNU COPYRIGHT POLICY

Point Loma Nazarene University, as a non-profit educational institution, is entitled by law to use materials protected by the US Copyright Act for classroom education. Any use of those materials outside the class may violate the law.

PLNU ACADEMIC ACCOMMODATIONS POLICY

If you have a diagnosed disability, please contact PLNU's Disability Resource Center (DRC) to demonstrate need and to register for accommodation by phone at 619-849-2486 or by e-mail at DRC@pointloma.edu. See [Disability Resource Center](#) for additional information.

PLNU ATTENDANCE AND PARTICIPATION POLICY

Regular and punctual attendance at all classes is considered essential to optimum academic achievement. If the student is absent from more than 10 percent of class meetings, the faculty member can file a written report which may result in de-enrollment. If the absences exceed 20 percent, the student may be de-enrolled without notice until the university drop date or, after that date, receive the appropriate grade for their work and participation. See [Academic Policies](#) in the Undergraduate Academic Catalog.