

Course Syllabus

 [Edit](#)



Department of Psychology

PSY 3091-1: Research Methods and Design II

4 Units

Fall 2021

M/W 12:15-1:20pm @ Rohr Hall 111

Fri. 12:15-1:20pm @ LW 216

Instructor: Rosemond T. Lorona, Ph.D.

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Office: Culbertson 214

Office Hours: M/W/F 8:45-9:45am; in-person and Zoom office hours available by appointment: [https://calendar.google.com/calendar/u/0/selfsched?sstoken=UUZENFhVN29pR1BzfGRIZmF1bHR8ZTQ2NWNhMmVIYTgzYzU2NDQyZmI1ZTcxN2JhZ_\(https://calendar.google.com/calendar/u/0/selfsched?sstoken=UUZENFhVN29pR1BzfGRIZmF1bHR8ZTQ2NWNhMmVIYTgzYzU2NDQyZmI1ZTcxN2JhZDAwNTE\)](https://calendar.google.com/calendar/u/0/selfsched?sstoken=UUZENFhVN29pR1BzfGRIZmF1bHR8ZTQ2NWNhMmVIYTgzYzU2NDQyZmI1ZTcxN2JhZ_(https://calendar.google.com/calendar/u/0/selfsched?sstoken=UUZENFhVN29pR1BzfGRIZmF1bHR8ZTQ2NWNhMmVIYTgzYzU2NDQyZmI1ZTcxN2JhZDAwNTE))

TA: Sabrina Deulofeu smdeulofeu0018@pointloma.edu (<mailto:smdeulofeu0018@pointloma.edu>)

TA office hours: Thursday 4-5pm [via Zoom \(drop in using this link\)](#) (<https://pointloma.zoom.us/j/93017623531>)

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.

COURSE DESCRIPTION

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 3090.

As you learned in the first half of this course sequence, the field of psychology is based on research and analysis of data. Now that you have a foundation in research and statistics, it is time to apply your knowledge. This course will build on the previous semester by focusing on conducting original research in psychology. Doing science well and communicating science to others are skills that are relevant for people in a variety of life and career trajectories. You will be responsible for the project from start to finish, including collecting data, analyzing and interpreting data, and communicating your research in written and verbal form. You will also focus on research ethics, APA style writing, and more advanced research designs and considerations. You will continue to practice statistical analyses in R, interpret statistical analyses, and write about statistics using APA style. Becoming a producer of psychological research will make you a better consumer of psychological research.

COURSE LEARNING OUTCOMES

1. Identify issues in statistics and research, such as bias, power, error, ethics, and validity, and identify possible solutions to these issues
2. Complete a psychological study or experiment that answers a research question of interest
3. Complete statistical analyses in R and correctly interpret and form conclusions based on the results of statistical analyses
4. Read and synthesize information from high quality peer-reviewed research
5. Communicate original research in written form using APA style.
6. Orally communicate your research and conclusions to colleagues.

REQUIRED TEXTS

Research Methods in Psychology: Evaluating a World of Information (4th Ed) by Beth Morling

ISBN: 978-0-393-53627-0; 978-0-393-53626-3

Learning Statistics with R, version 0.6. by Danielle Navarro.

Download for free at <https://learningstatisticswithr.com>

Publication Manual of the American Psychological Association (7th Ed.)

ISBN-13: 978-1433832161; ISBN-10: 143383216X

Required Technology

RStudio, version 1.2.1335 or higher (free)

First, download R 3.6.1 (base program) on your personal laptop for free at <https://www.r-project.org/> and then download RStudio for free at <https://www.rstudio.com/>

If you are having trouble downloading the necessary technology, please contact IT to discuss options.

COURSE CREDIT HOUR INFORMATION

In the interest of providing sufficient time to accomplish the stated Course Learning Outcomes, this class meets the PLNU credit hour policy for a 4 unit class delivered over 15 weeks. It is anticipated that students will spend a minimum of 37.5 participation hours per credit hour on their coursework. For this course, students will spend an estimated 150 total hours meeting the course learning outcomes. The time estimations are provided in the Canvas modules. Dedicating adequate time to your learning will help you succeed and is especially important if you want an A in the course. Think of it as: hours spent -> points earned. Specific details about how the class meets the credit hour requirement can be provided upon request.

COURSE SCHEDULE AND ASSIGNMENTS

Assignments (10%): You will have various assignments that will progress you toward successful completion of your research project, including an ethics training and an IRB proposal. Any small-points assignments that keep you up-to-date with readings, lectures, or your project timeline will fall in this category. Detailed directions for each assignment are on Canvas. Assignments are individual work unless otherwise specified.

Peer Review and Team Professionalism (10%): You will complete sections of your research paper throughout the semester and submit them for peer review. You will be graded on your submission of the section and on your peer review. Detailed directions for each assignment are on Canvas. Assignments are individual work unless otherwise specified. You will also be graded by your research teammates for group work accountability. Teammates will determine your grade based on attendance, professional communication, attentiveness to details and needs of the group, and overall contribution to data collection and the research process.

Final Research Manuscript (25%): Your APA-style manuscript will thoroughly describe your empirical

research study from start to finish. The paper will include an APA style title page, abstract, introduction, method, results, discussion, table/figure, and references. Papers with 1+ missing sections will not be graded. More instructions and a rubric are on Canvas. If you need writing help, I encourage you to use writing center/tutorial services or visit TA office hours. I can advise you on specific writing questions in office hours or by appointment.

Midterm Learning Demonstrations (20%): There will be multiple choice, fill-in-the-blank, and/or short answer questions on each learning check that will be from readings, lectures, and activities. Learning checks will be open [written] note, but timed. Use of the internet or navigating away from the Canvas quiz page will not be allowed for any reason. You may write or print your notes to use, but you may not use digital notes or resources.

Final Learning Demonstration (20%): We will celebrate all of our learning at the end of the semester. You will demonstrate your learning by responding to written questions that will require cumulative knowledge of research methods.

Research Group Presentation and Research Celebration (15%): Your group will present its research project to the class on one day, and will present to the PSY 3090 students on a later day (i.e., the Research Celebration). These presentations will be accompanied by a research poster. The presentation should be 10 minutes total, with ~10 minutes for follow-up questions. The first presentation will be graded so that you will be well-prepared for the Research Celebration. You should be able to accurately, clearly, thoroughly, and interestingly present your research project and be able to answer questions about your project. You will be graded individually and as a group. You will also be graded as a group on the quality of your research poster. For the Research Celebration, you will be graded on attendance and professional engagement with students and faculty. There will be no make-ups for students who are absent. The Research Celebration will take place during finals week.

Extra Credit: *There is no extra credit in this course. The many small-points assignments and peer reviews provide opportunities to help your grade and also function to help you do your best on learning demonstrations and your final research paper.*

Course Policies and Expectations

General and attendance

- Any changes to the syllabus (including course expectations and assignments) will be announced in class and/or as a Canvas announcement. Students are responsible for actively monitoring Canvas updates.
- Students are responsible for all content/material that is found within the Canvas course.
- Students should complete the assigned reading, lectures, or activities prior to class, especially for “Flipped Fridays”. Such practices will enable you fully participate in class activities. In the case of “Flipped Friday,” you may be very lost or behind if you do not do the assigned work beforehand.
- Regular and punctual attendance at all class sessions is considered essential to optimum academic achievement. Attendance will be taken at the beginning of class. If you are more than 15 minutes

achievement. Attendance will be taken at the beginning of class. If you are more than 10 minutes late to class, you will be counted absent. If you leave class early, you will be counted absent unless you notify me before class begins. If the student is absent for more than 10 percent of class sessions, the faculty member will issue a written warning of 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 \(https://catalog.pointloma.edu/content.php?catoid=46&navoid=2650#Class_Attendance\)](https://catalog.pointloma.edu/content.php?catoid=46&navoid=2650#Class_Attendance) in the Undergraduate Academic Catalog. If absences exceed these limits but are due to university excused health issues, an exception will be granted.

- Out of respect and care for one another, please do not attend class if you are feeling ill in any way. You will not miss points for being absent (just follow overall attendance policy above). Additionally, we will be wearing masks according to the university policies.
- If you miss class, you are responsible for obtaining [from a classmate] lecture material, class exercises, and all in-class announcements AND submit any assignments on time, if applicable.
 - As long as we are meeting in-person, I will not be recording lectures to post online.
 - I strongly encourage students to get vaccinated and stay vigilant about COVID to avoid missing class due to illness.

Submitting Assignments

- All due dates are posted in advance on Canvas. You may submit assignments early. Late work is accepted for 3 days, including weekend days, after the original due date. Canvas will automatically deduct 10% from the grade for each late day.
- Assignments are individual work; you are expected to complete the work on your own.
- Work submitted on Canvas must be in .doc, .docx, or .pdf file types *only*. The student is responsible for making sure Canvas files work and go through Turnitin. Files that do not open, are in the wrong file type, and/or can't go through Turnitin will be considered late until the problem is rectified.

Learning Demonstration (LD) Information

- LDs may consist of multiple choice, fill-in-the-blank, and/or short answer questions. You may be required to interpret and apply information based on assigned readings, lectures, and learning activities.
- All LDs require cumulative knowledge. You will be tested on the current unit and previous units.
- LDs will be taken during in-person class using Canvas. On test day, each student must bring an electronic device to take their LD (laptop recommended; phone or tablet is NOT recommended). The LD is not open-internet or open-book. You may bring one 3"x 5" index card with any notes on it to use.
- A make-up midterm LD is available in cases of documentable emergency or illness or if the student provides at least 2 weeks' notice of a non-emergency absence. The make-up LD must be taken within 2 weeks of the original test date and it is up to the student to contact the professor to schedule a time to take the LD in a proctored setting. Each student may not have more than one make-up midterm LD per semester. There is no option to re-take a LD that was previously attempted.
- The final LD and final presentations cannot be dropped or made-up. The final LD will be completed on Monday, Dec. 6th. The in-class presentation will be Friday, Dec. 10th. During Finals week, you will present at the Research Celebration in lieu of a standard exam. Successful completion of this course

present at the Research Celebration in lieu of a standard exam. Successful completion of the course requires your attendance at the Research Celebration on Monday, Dec. 13th from 8:30-10am.

About Contacting Me. I welcome your questions (about class or otherwise) and would enjoy hearing from you throughout the semester. Do not hesitate to email me or take advantage of office hours. We can schedule meetings outside of office hours if needed. I will give prompt email replies as I am able, but there may be times of the day when I am not available, such as in the evenings. Please do not leave important questions for the last minute!

ASSESSMENT AND GRADING

Student grades will be posted in the Canvas grade book. It is important to read the comments posted in the grade book as these comments are intended to help students improve their work. Final grades will be posted within one week of the end of the class. Grades will be weighted as listed above and determined based on the following:

A = 93-100%

A- = 90-92.9%

B+ = 88-89.9%

B = 84-87.9%

B- = 80-83.9%

C+ = 77-79.9%

C = 70-76.9%

C- = 65-69.9%

D+ = 62-64.9%

D = 55-61.9%

D- = 50-54.9%

F = 49.9% or less

STATE AUTHORIZATION

State authorization is a formal determination by a state that Point Loma Nazarene University is approved to conduct activities regulated by that state. In certain states outside California, Point Loma Nazarene University is not authorized to enroll online (distance education) students. If a student moves to another state after admission to the program and/or enrollment in an online course, continuation within the program and/or course will depend on whether Point Loma Nazarene University is authorized to offer distance education courses in that state. It is the student's responsibility to notify the institution of any change in his or her physical location. Refer to the map on State Authorization to view which states allow online (distance education) outside of California.

PLNU ATTENDANCE AND PARTICIPATION POLICY

Regular and punctual attendance at all synchronous class sessions is considered essential to optimum academic achievement. If the student is absent for more than 10 percent of class sessions (virtual or face-to-face), the faculty member will issue a written warning of 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. In some courses, a portion of the credit hour content will be delivered asynchronously and attendance will be determined by submitting the assignments by the posted due dates. See Academic Policies in the Undergraduate Academic Catalog. If absences exceed these limits but are due to university excused health issues, an exception will be granted.

Asynchronous Attendance/Participation Definition

A day of attendance in asynchronous content is determined as contributing a substantive note, assignment, discussion, or submission by the posted due date. Failure to meet these standards will result in an absence for that day. Instructors will determine how many asynchronous attendance days are required each week.

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 HONESTY POLICY

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. Academic

dishonesty also includes such acts as cheating, fabrication of information, misrepresentations, having unauthorized possession of exams or acquiring/providing information about exams to offer/get an advantage. Academic dishonesty may lead to a zero for that assignment or examination, a zero for your professionalism grade, and/or an F for the course. Faculty should follow and students may appeal using the procedure in the university Catalog. See [Academic Policies](#) (<http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278>) for definitions of kinds of academic dishonesty and for further information.

PLNU ACADEMIC ACCOMMODATIONS POLICY

PLNU is committed to providing equal opportunity for participation in all its programs, services, and activities. Students with disabilities may request course-related accommodations by contacting the Educational Access Center (EAC), located in the Bond Academic Center (EAC@pointloma.edu or 619-849-2486). Once a student's eligibility for an accommodation has been determined, the EAC will issue an academic accommodation plan ("AP") to all faculty who teach courses in which the student is enrolled each semester. PLNU highly recommends that students speak with their professors during the first two weeks of each semester/term about the implementation of their AP in that particular course and/or if they do not wish to utilize some or all of the elements of their AP in that course. Students who need accommodations for a disability should contact the EAC as early as possible (i.e., ideally before the beginning of the semester) to assure appropriate accommodations can be provided. It is the student's responsibility to make the first contact with the EAC.

SPIRITUAL CARE

Please be aware PLNU strives to be a place where you grow as whole persons. To this end, we provide resources for our students to encounter God and grow in their Christian faith. If students have questions, a desire to meet with the chaplain or have prayer requests you can contact the [Office of Spiritual Development](#) (<https://www.pointloma.edu/offices/spiritual-development>).

USE OF TECHNOLOGY

In order to be successful in the online environment, you'll need to meet the minimum technology and system requirements; please refer to the [Technology and System Requirements](#) (<https://help.pointloma.edu/TDCClient/1808/Portal/KB/ArticleDet?ID=108349>) information. Additionally, students are required to have headphone speakers compatible with their computer available to use. If a student is in need of technological resources please contact student-tech-request@pointloma.edu (<mailto:student-tech-request@pointloma.edu>).

Problems with technology do not relieve you of the responsibility of participating, turning in your assignments, or completing your class work.

Title IX Office. If you or someone you know would like help related to an experience of sexual violence including sexual assault, harassment, domestic violence, dating violence, stalking or other type of non-consensual sexual conduct, please contact the Title IX Coordinator at PLNU, Danielle Brown Friberg (619-849-2313). Reporting is also available on the Title IX website. The Title IX office understands the sensitive nature of these situations and can provide information about available on- and off-campus resources. Staff members at the office will also explain your rights and the judicial process options, if you choose to file a complaint. If you or someone you know feels unsafe or may be in imminent danger

you choose to file a complaint. If you or someone you know feels unsafe or they are in imminent danger, please call the PLNU Department of Public Safety (619-849-2525) or local police department (9-1-1) immediately.

Student Success and Wellness. If you or someone you know would like help related to a physical or mental health problem, (e.g., depression, anxiety, difficulty focusing on school or managing daily needs, grief, trauma resolution, sleep or eating changes, etc.), and/or would like academic assistance, please contact the appropriate office using the following information.

- Counseling Services 619-849-2574; sdwellnesscenter@pointloma.edu
(<mailto:sdwellnesscenter@pointloma.edu>)
- Educational Access Center 619-849-2533; eac@pointloma.edu (<mailto:eac@pointloma.edu>)
- Medical Services 619-849-2280; sdwellnesscenter@pointloma.edu
(<mailto:sdwellnesscenter@pointloma.edu>)
- Tutorial Services 619-849-2953; tutorialservices@pointloma.edu
(<mailto:tutorialservices@pointloma.edu>)

ASSIGNMENTS AT-A-GLANCE

Please see the weekly [Modules](#) for assignments due each week. Assignments and due dates will always be posted and available in advance.

Week	Content & Textbook Readings (read prior to class)	Project/Paper Milestones
Week 1: Aug 31-Sept 3 (Class on Tues., Wed., Fri.)	Research Ethics ; Ch. 4 (RMP)	
Week 2: Sept 4 -10 No Monday Class (Labor Day)	Formalizing the Research Plan ; Ch. 5 (RMP)	
Week 3: Sept 11 – 17	Survey Designs ; Ch. 6 (RMP)	
Week 4: Sept 19 – 24	Sampling ; Ch. 7 (RMP)	IRB proposal complete
Week 5: Sept 25 – Oct 1	APA Style ; APA reading (RMP); APA Manual	Method is written
Week 6: Oct 2 – 8	Correlational Designs ; Ch. 8 (RMP)	Data Collection

	Ch. 8 (RMP)	
Week 7: Oct 9 – 15	Multivariate Research Designs ; Ch. 9 (RMP)	Data Collection
Week 8: Oct 16 – 22 No Class Friday (Fall Break)	Experiments ; Ch. 10 (RMP)	Data Collection
Week 9: Oct 23 – 29	More on Experiments ; Ch. 11 (RMP)	Introduction is written Data Collection
Week 10: Oct 30 – Nov 5	Experiments with 2+ IVs ; Ch. 12 (RMP)	
Week 11: Nov 6 – 12	Statistics Review ; Inferential Statistics (RMP)	
Week 12: Nov 13 – 19	Quasi Experiments and Small-N Designs Ch. 13 (RMP)	Results is written
Week 13: Nov. 20 – 26 No Wednesday or Friday Class (Thanksgiving)	Replication and Generalizability ; Ch. 14 (RMP)	
Week 14: Nov 27 – Dec 3	The Bigger Picture	Discussion is written
Week 15: Dec. 4 – 10	Wrapping Up, Presentations	
Research Celebration: Monday Dec. 13 @ 8am Final Paper Due: Monday Dec. 13		Project and Paper is complete