# **Psychology Department**

# Spring 2024

# **PSY3090-2 Research Methods and Statistics I (4 units)**

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Office hours:	Click here to book an appointment! You must schedule an appointment 12 hours before or the system will prevent you from scheduling. If the available times don't work for you, shoot me an email and we can find something that works for both of us:)		
Teaching Assistant:	Joyce Lynn		
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Class Modality and Location:	M/W: Taylor Hall 313 F: Ryan Library 213		
Class Meetings:	M/W/F; 8:30 AM - 9:35 PM		
Department:	Psychology		
Units:	4		
Final written exam:	Wednesday 7:30 AM - 10:00 AM		
Final exam presentations:	Wednesday 2:00 PM - 4:00 PM		
Text*:	Jhangiani, R.S., Chiang, I.C.A., Cuttler, C., & Leighton, D.C. (2017). <i>Research methods in psychology</i> (4 <sup>th</sup> edition). Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International License.		

<sup>\*</sup>*Textbook note*: This is a freely-available textbook. There are many ways to read it. Follow this <a href="link">link</a> to find out what works best for you!

#### 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 becomes an expression of faith. Being of Wesleyan heritage, we aspire to be a learning community where grace is foundational, truth is pursued, and holiness is a way of life.

## **COURSE DESCRIPTION**

At its core, psychology is a discipline that relies on insights from empirical research. The focus of this course is to train you to produce these insights and to contribute to the scientific understanding of human nature. In so doing, we will focus on developing important skills that will improve your ability to read and understand existing research, develop your own research questions, construct and test hypotheses, analyze data, and communicate research findings to both lay and professional audiences. The skills you learn along the way will improve your scholarship, and they will also give you specialized tools that can be applied outside the classroom in the business world, non-profit sector, health care settings, service industry, and higher education. Classroom activities will focus on lecture, discussion, tutorials, and hands-on practice. You will be evaluated based on your engagement with the material, your knowledge of it, and your ability to apply it to real-world problems and situations. When all is said and done, it is my hope that you will find the material from this course to be useful, engaging, and an important part of psychological study, no matter what your interests and goals may be.

From the catalog: "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 PSY 3091."

#### COURSE LEARNING OUTCOMES

# You will learn to:

- Apply the scientific method to study human behavior and the human mind.
- Generate scientific hypotheses and relate them to theories.
- Synthesize psychological research by finding published scientific psychological articles using online databases, and to read and correctly interpret them.
- Understand methodological and statistical concepts (e.g., external validity, ecological validity, internal validity, etc.) enough to critique existing scientific psychological research.
- Conduct statistical analyses using available software (e.g., SPSS, JASP, R), and to correctly interpret and communicate the results.
- Communicate the results of scientific research by writing APA-style empirical reports.
- Design, conduct, analyze, and present your own research study.

Objectives will be achieved through your reading of the written materials, through the lectures given and discussions led by the instructor, through in-class exercises, and through active participation by you in the production of your own experimental project.

Whether these objectives have been achieved or not will be measured by your scores on quizzes, exams, class participation, and both oral and written versions of your research project.

# **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 four unit class delivered over 15 weeks. Specific details about how the class meets the credit hour requirement can be provided by the university or our accrediting bodies.

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

## PLNU ATTENDANCE AND PARTICIPATION POLICY

Regular and punctual attendance at all synchronous class sessions is considered essential to optimum academic achievement. Leaving early from class is considered an absence. If the student is absent for more than 10% of class sessions, the faculty member may issue a written warning of de-enrollment. If the absences exceed 20%, the student may be de-enrolled without notice until the university withdrawal date or, after that date, receive the appropriate grade for their work and participation. For example, when absences reach 20%, the final letter grade will be adjusted down one full letter grade (e.g., from an A to B) to account for lost learning due to diminished participation and engagement.

# **PROFFESIONALISM**

My hope is that the skills you learn in this class will translate to your aspirations, whatever they may be. This class is a low stakes environment for you to learn, practice, and hone your skills. One necessary skill is professionalism. Professionalism encompasses a host of characteristics. In this class you will be expected to

- Participate
- Be prepared
- Be familiar with course policies
- Be kind, respectful, and helpful
- Pay attention and be on task

• Do your fair share when working with others

Your grade will be determined by your classmates observations as well as my own.

#### LATE ASSIGNMENTS

I allow an extra week for any assignment to be turned in. The deadline that you see in Canvas will act as a soft deadline (e.g., January 15th) and the hard deadline will be the date the assignment must be turned in by (e.g., January 22nd). My hope is that this approach allows for flexibility and accommodates varying circumstances. The additional week provides a safety net for unforeseen circumstances and acknowledges a variety of accommodations. After the hard deadline, no work will be accepted. Work must be completed by the final week of classes. Official excused absences are given by the Provost's Office. Please be aware that the official PLNU policy is that illnesses are not excused absences, even with a note from a health care provider.

#### 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 <u>Class Schedules</u>. No requests for early examinations or alternative days will be approved.

#### 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 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 <u>dis</u>honesty 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 <u>Academic Policies</u> for definitions of kinds of academic dishonesty and for further policy information.

#### **PLAGIARISM**

As the overarching goal of this course includes the ability to effectively use and summarize the research of others, it is of utmost importance that you do your best to acknowledge the work of others in an ethical manner. To this point, even well-intentioned students sometimes accidentally commit acts of plagiarism.

Students should demonstrate academic honesty by doing original work and by giving appropriate credit to the ideas of others. As explained in the university catalog, 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. Violations of university academic honesty include cheating, plagiarism, falsification, aiding the academic dishonesty of others, or malicious misuse of university resources. A faculty member who believes a situation involving academic dishonesty has been detected may assign a failing grade for a) that particular assignment or examination, and/or b) the course following the procedure in the university catalog. Students may appeal also using the procedure in the university catalog. See Academic Policies for further information. In this class, this involves accurately quoting any passages that were written by others, and accurately citing the ideas of others in your paper. Because Academic integrity is of tremendous importance both at PLNU and in the larger psychological community, academic dishonesty (plagiarism) in will result in a failing grade for the course.

# ARTIFICIAL INTELLIGENCE (AI) POLICY

ChatGPT (and generative artificial intelligence programs more broadly) are new inventions, and their exact place in contemporary society is not yet well defined. Until these programs and their social impact is better understood, I am reluctant to incorporate them too strongly in this course. My main concern is that they can be used in such a way that interferes with learning the intended skills and knowledge (e.g., relating scientific research back to personal experiences. Additionally, these programs often produce text that is problematic for other reasons (e.g., violate academic dishonesty codes, fail to address all grading criteria). As such, it is required to learn the intended skills and knowledge by writing them yourself. Thus, unless otherwise explicitly stated, their use is prohibited for all assignments in this course. Usage of these programs will be considered a form of academic dishonesty, and the penalty for using such programs can range from assignment failure to expulsion from the university (depending on the severity of the offense and students' past history).

## 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.

# LANGUAGE AND BELONGING

Point Loma Nazarene University faculty are committed to helping create a safe and hospitable learning environment for all students. As Christian scholars we are keenly aware of the power of language and believe in treating others with dignity. As such, it is important that our language be equitable, inclusive, and prejudice free. Inclusive/Bias-free language is the standard outlined by all major academic style guides, including MLA, APA, and Chicago, and it is the expected norm in university-level work. Good writing and speaking do not use unsubstantiated or irrelevant generalizations about personal qualities such as age, disability, economic class, ethnicity, marital status, parentage, political or religious beliefs, race, gender, sex, or sexual orientation. Inclusive language also avoids using stereotypes or terminology that demeans persons or groups based on age, disability, class, ethnicity, gender, race, language, or national origin. Respectful use of language is particularly important when referring to those outside of the religious and lifestyle commitments of those in the PLNU community. By working toward precision and clarity of language, we mark ourselves as serious and respectful scholars, and we model the Christ-like quality of hospitality.

You may report an incident(s) using the <u>Bias Incident Reporting Form</u>.

## SEXUAL MISCONDUCT AND DISCRIMINATION

In support of a safe learning environment, if you (or someone you know) have experienced any form of sexual discrimination or misconduct, including sexual assault, dating or domestic violence, or stalking, know that accommodations and resources are available through the Title IX Office at <a href="mailto:pointloma.edu/Title-IX">pointloma.edu/Title-IX</a>. Please be aware that under Title IX of the Education Amendments of 1972, faculty and staff are required to disclose information about such misconduct to the Title IX Office.

If you wish to speak to a confidential employee who does not have this reporting responsibility, you can contact Counseling Services at <a href="mailto:counselingservices@pointloma.edu">counselingservices@pointloma.edu</a> or find a list of campus pastors at <a href="mailto:pointloma.edu/title-ix">pointloma.edu/title-ix</a>.

#### CHANGE IN SYLLABUS OR SCHEDULE

It is possible that I will make modifications to the syllabus or schedule during the semester. If this occurs, I will make an announcement by email, in class, or both.

## ASSESSMENT AND GRADING

# **Grading:**

	100%
Professionalism	<u>15%</u>
Mini Research Paper	10%
Final	20%
Midterm	15%
Homework/In-Class Exercises	40%

# **Midterm & Final Exams**

These exams are short-answer, and out of 50 points. Exam content will be similar to in-class discussions and activities. You will need to do some simple math (bring a calculator if you would like, phones are not allowed) and demonstrate a good understanding of research methods and statistics. The midterm will focus on content from weeks 1-7. The final will focus on content from weeks 8-15

# Grade Scale

A	В	C	D	F
A 93-100	B+ 87-89.99	C+ 77-79.99	D+ 67-69.99	
A- 90-92.99	B 83-86.99	C 73-76.99	D 63-66.99	F Less than 59
	B- 80-82.99	C- 70-72.99	D- 60-62.99	

# **DUTY TO REPORT**

Point Loma Nazarene University is committed to maintaining work, learning, and living environment that is free from sex discrimination and does not engage in or tolerate discrimination on the basis of sex in its education programs and activities, including retaliation for asserting or otherwise participating in claims of sex discrimination.

The university is also committed to providing a work, learning, and living environment that is free of sexual harassment, including retaliation for asserting or otherwise participating in claims of sex harassment.

Additionally, the title IX office has created a resource to report bias incidents. A bias incident is any intentional or unintentional act or behavior directed toward an individual or group based on any facet of the individual's or group's identities.

Bias incidents may take the form of, but are not limited to:

- Racist slurs
- Derogatory comments
- Offensive terminology
- Cultural misappropriations (e.g., taking or using things from a culture that is not your own, especially without showing that you understand or respect this culture: e.g., costumes)
- Microaggressions (e.g., subtle, nonverbal, layered insults/assaults based on race, gender, class, sexuality, language, immigration status, phenotype, accent, or surname, often carried out automatically or unconsciously)

If you would like to report a bias incident, click here.

#### PLNU STATEMENT OF INCLUSIVITY

As a Christian community shaped by grace, truth, and holiness as a way of life, Point Loma Nazarene University is committed to pursue and reflect the diversity, inclusion, and equity of the kingdom of God. We believe that every human being is created in the image of God and that our diverse identities, experiences, and abilities enrich our learning community. We recognize that embracing inclusion and equity requires work and intentional collective growth. We trust that the Holy Spirit is at work among us and guiding us to embrace God's call toward justice, righteousness, and unity amidst diversity.

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## **COURSE SCHEDULE**

Week 1	
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MLK Day on Monday	
Hybrid Friday (No In-Class Meeting)	
Midterm (Mar. 1)	
ar. 4th - Mar. 10th	
Easter Break: No Class Friday	
Easter Break: No Class Monday	

Scale Development	No Class Friday (Potentially Wednesday)	
Week 16 (Final)		
In-Class Exam:	Group Presentations:	
Wednesday 7:30 AM - 10:00 AM	Wednesday 2:00 PM – 4:00 PM	