

Department of Kinesiology

KIN 440

Measurement, Statistics, and Evaluation of Human Performance (3 units)

Spring 2018

Meeting days: T + online (hybrid)	Instructor: Professor Arnel Aguinaldo
Meeting times: 1:30PM-2:45PM	Office: Taylor Hall 104
Meeting location: LW 213	E-mail: arnelaguinaldo@pointloma.edu Links to an external site.
Prerequisites: Upper Division status	Office hours: R 3:30-5:00PM or by appointment

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.

INSTITUTIONAL LEARNING OUTCOMES (ILO)

- 1. Learning, Informed by our Faith in Christ**
Students will acquire knowledge of human cultures and the physical and natural world while developing skills and habits of the mind that foster lifelong learning.
- 2. Growing, In a Christ-Centered Faith Community**
Students will develop a deeper and more informed understanding of others as they negotiate complex professional, environmental and social contexts.
- 3. Serving, In a Context of Christian Faith**
Students will serve locally and/or globally in vocational and social settings.

COURSE DESCRIPTION

Study of measurement techniques and instruments, descriptive and inferential statistics and evaluation procedures used in human performance. Principles and techniques of construction, organization, administration, and interpretation involved in human performance research. Includes critical evaluation of data using basic statistical techniques and an evaluation of research design in human performance- related studies.

COURSE LEARNING OUTCOMES (CLO)

1. Demonstrate knowledge and ability to use formative and summative fitness, skill, and cognitive and affective measurement and evaluation techniques appropriate for assessing participants in kinesiology and physical activity programs.
2. Describe important issues related to the ethical use of human subjects in research and the role of the institutional review board in protecting them.
3. Apply and demonstrate basic statistical procedures in descriptive and inferential statistical analyses used in the measurement and evaluation process.
4. Define and differentiate the concepts and types of reliability and validity used to evaluate norm-referenced and criterion-referenced data in physical activity applications
5. Define and interpret the measurement issues associated with clinical testing and epidemiology
6. Demonstrate an understanding of the principles involved in the assessment of effective physical activity programs in adults and youths.

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 3 unit class delivered over 15 weeks. Specific details about how the class meets the credit hour requirement can be provided upon request.

REQUIRED TEXTS AND RECOMMENDED RESOURCES

- **Required Text:**
Morrow, J. R., Jackson, A. W., Disch, J. G., & Mood, D. P. (2016). *Measurement and Evaluation in Human Performance* (5th Ed.). Champaign, IL: Human Kinetics. ISBN: 9781450470438 (eBook is available [hereLinks to an external site.](#))

- **SPSS Statistics Grad Pack Software (required):**
 SPSS statistical analysis software can be purchased for \$49 at [ThinkEDULinks to an external site.](#) It is also available to students at the Ryan Library or via a Virtual Desktop Infrastructure or the "Cloud," which allows students to remotely access SPSS virtually anywhere. [Download the SPSS Access document for detailed instructions](#)   
- **Supplemental Text (recommended only):**
 Vincent, W.J. and Weir, J.P. (2012). *Statistics in Kinesiology* (4th Ed.). Champaign, IL: Human Kinetics. ISBN: 1450402542 (eBook is available [hereLinks to an external site.](#))
- **CourseKey:** This class will be using CourseKey (www.thecoursekey.com ([Links to an external site.](#))), which is a classroom communication and management system that will be used for regular attendance, in-class assessments and polls, activities, and constructive dialogue. Please download the CourseKey [iOS \(Links to an external site.\)Links to an external site.](#) or [Android \(Links to an external site.\)Links to an external site.](#) application (*recommended*) or use it through your web browser on any smartphone, tablet, or laptop. **To add this class, please search for your professor's name or by adding our Course Join Code is: ck2814bb (Links to an external site.)Links to an external site.**
- **Canvas Modules:** This is a hybrid course, meaning class-related material will be covered both online and face-to-face in class. Therefore, the entire course is organized by weekly Learning Modules on Canvas. All resources and activities will be centralized here so please log on to your course section every week to stay updated with course-related material.
- [Technical Resources](#)
- [Canvas HelpLinks to an external site.](#)

ASSESSMENT & GRADING

- **Assignments:** Students will complete six assignments, most of which will be completed utilizing Excel and/or SPSS statistical software. Completed assignments need to be submitted via Blackboard by the due date. Each assignment is worth 10 pts (60 pts total).
- **Participation:** Each week (module) there will be a Discussion forum where students can post and respond to questions and comments regarding the material covered in

that module. Students can earn up to 3 points per module discussion, with full credit given to those who appropriately answer or solve a relevant question or problem. The Discussion forums are intended to be the online place for students can interact with one another as well as with the instructor outside of class. For in-class participation, *CourseKey* will be used to document in-class assessments, polls, and discussions. The total participation points possible given for the course is a normalized aggregate of 45.

- **Exams:** There will be a Mid-Term and a Final exam in this course in which the final exam will be cumulative. Both exams will be administered through Canvas. The mid-term exam is worth 40 pts and the final exam is worth 80 (120 pts total).
- **Final Project:** Students will be assigned to a team of 3-4 students and will complete a research paper proposing the use of the FITNESSGRAM tests in assessing health-related physical fitness in youth students. A prerequisite for this project is the completion and certificate submission of the NIH Human Subjects Training. The project is worth 75 pts, 10 of which is given for submitting the Human Subjects Training certificate.

ASSESSMENT	POINTS	CLO
Mid-Term Exam	40	1,3,4
Final Exam	80	1,3,4,5,6
Assignments	60	1,3,4,5,6
Participation	45 total	1,3,4,5,6
CourseKey	15	
Discussions	30	
Final Project	75 total	1,2,3,4,5,6
Human Subjects Cert	10	
Manuscript	65	
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Total	300	

Grading Criteria:

POINTS	GRADE	POINTS	GRADE
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278-300	A	224-232	C
269-277	A-	215-223	C-
260-268	B+	206-214	D+
251-259	B	197-205	D
242-250	B-	188-196	D-
233-241	C+	0-187	F

ATTENDANCE AND PARTICIPATION

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 has the option of filing a written report which may result in de-enrollment. If the absences exceed 20 percent, the student may be de-enrolled without notice. If the date of de-enrollment is past the last date to withdraw from a class, the student will be assigned a grade of W or WF consistent with university policy in the grading section of the catalog. Although attendance will be rarely taken, there is a strong negative correlation between the number of absences and grade percentage in this class.

INCOMPLETES AND LATE ASSIGNMENTS

- All assignments are to be submitted/turned in via Canvas by the beginning of the class session when they are due.
- Late work (turned in any time after the due date and time) may be turned in until the last day of class, for a maximum of 50% credit (this is still a failing grade but is better than zero points).
- Missed exams may ONLY be made up with a legal, written excuse. A missed exam for an approved reason MUST be completed prior to returning to the next class meeting.

ACADEMIC DISHONESTY

Students should demonstrate academic honesty by doing original work and by giving appropriate credit to the ideas of others. As stated 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. Such acts include plagiarism, copying of class assignments, and copying or other fraudulent behavior on examinations. 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.” See [Academic Policies](#) in the undergrad student catalog.

ACADEMIC ACCOMMODATIONS

While all students are expected to meet the minimum academic standards for completion of this course as established by the instructor, students with disabilities may require academic accommodations. At Point Loma Nazarene University, students requesting academic accommodations must file documentation with the [Disability Resource Center](#) (DRC), located in the Bond Academic Center. Once the student files documentation, the Disability Resource Center will contact the student’s instructors and provide written recommendations for reasonable and appropriate accommodations to meet the individual needs of the student. See [Academic Policies](#) in the undergrad student catalog.

NETIQUETTE POLICY

Written communication is an extremely important factor in the online environment. The ability to communicate clearly and effectively is crucial to preserving the mission of Point Loma Nazarene University (PLNU). To help maintain this type of online etiquette (netiquette), here is a list of rules to follow as you proceed through your online courses: [PLNU Netiquette](#)

FERPA POLICY

In compliance with federal law, neither PLNU student ID nor social security number should be used in publically posted grades or returned sets of assignments without student written permission. This class will meet the federal requirements by (each faculty member choose one strategy to use: distributing all grades and papers individually; requesting and filing written student permission; or assigning each student a unique class ID number not identifiable on the alphabetic roster.). Also in compliance with FERPA, you will be the only person given information about your progress in this class unless you have designated others to receive it in the “Information Release” section of the student portal. See [Policy Statements](#) in the undergrad student catalog.

FINAL EXAMINATION POLICY

Successful completion of this class requires taking the final examination **on its scheduled day**. No requests for early examinations or alternative days will be approved.

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.

USE OF TECHNOLOGY

Point Loma Nazarene University encourages the use of technology for learning, communication, and collaboration. It is the responsibility of the student to confirm access to the essential applications needed for the class such as Excel as well as standard online research tools.

**subject to change at the instructor's discretion*