

KIN 3027 Fall 2023 Syllabus

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KIN 3027
Applied
Biomechanics
 Department of Kinesiology
 Number of Units: 2
 Fall 2023

Meeting days: Thursday	Instructor: Arnel Aguinaldo, PhD, ATC ("Dr. A")
Meeting times: 10:00AM - 11:45AM (Section 1) 12:30PM - 2:15PM (Section 2)	Phone: 619-849-3007
Meeting location: Latter 1 (LA1)	Email: aaguinal@pointloma.edu



KIN 3027 Fall 2023 Syllabus

Updated automatically every 5 minutes

TA: Hughston Preston	Office Hours
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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

This lab complements the Applied Biomechanics course (KIN 3027), which is designed to provide students with a mix of theoretical concepts and applied problem-solving in various biomechanical applications in human movement. Through the core math, physics, kinesiology, and anatomy classes students have taken to this point, you have been provided a breadth of information that will serve you in learning and applying the basic concepts of kinematics and kinetics of whole body and joint movement.

COURSE LEARNING OUTCOMES

At the end of this course, students will be able to:



KIN 3027 Fall 2023 Syllabus

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- quantifying and describing joint movement.
3. **Identify** the concepts of linear and angular kinetics and their effects on human movement.
 4. **Describe** various technology and methods employed to quantitatively measure joint kinematics and kinetics
 5. **Apply** biomechanical techniques to evaluate joint movement in clinical-decision making and analyzing human performance
 6. **Interpret** movement patterns in basic clinical applications using qualitative biomechanical analyses.
 7. **Compare** the kinematic and kinetic patterns between conditions of walking and jumping.

**REQUIRED TEXTS AND
RECOMMENDED RESOURCES**

KIN 3027 Fall 2023 Syllabus

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Burlington, MA:
Jones & Bartlett
Learning.
[Available on
Amazon here](#)

NOTE: Students are responsible to have the required textbooks prior to the first day of class. Students are also encouraged to begin reading the books in preparation for the class as soon as possible.

This course also utilizes the following online tools (free of charge for students) to facilitate student engagement and enhance your learning experience:

-  - Zoom video conferencing will be used for synced meetings and virtual office hours

COURSE CREDIT HOUR INFORMATION



KIN 3027 Fall 2023 Syllabus

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meets the credit hour requirement can be provided upon request. (Based on 37.5 hours of student engagement per credit hour.)

Category	Time Expectation in Hours
Online Participation in Discussions, Groups, etc.	15
Reading Assignments	10
Written Assignments	15
Other Assignments & Learning Activities	15
Quizzes, Surveys	20
Total Hours	75

ASSESSMENT AND GRADING

- Assignments:** There will be six assignments worth 10 points each to be scheduled throughout the semester. These assignments will vary in difficulty depending on the module covered that week. Problems from each assignment will be discussed in class or in office hours.
- Mid-Term Exam:** A mid-term exam will be administered via Canvas on the date noted below in the course schedule. It will consist of multiple choice and T/F questions, covering the material from the first unit (5 modules).



KIN 3027 Fall 2023 Syllabus

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on how to write this report will be posted on Canvas in Module 10.

- **Narrative Review:** As part of an effort to gain experience in biomechanics scientific research, each student will be required to complete a literature review on a topic within the fields of sports biomechanics, physical therapy, or gait analysis. This project involves searching and reviewing six biomechanical research articles from peer-reviewed journals relevant to their selected topic and writing up a three-page abstract summarizing their analysis of the topic.
- **In-Video Quizzes:** All module lectures will be shown through weekly in-video quizzes, which are interactive videos each embedded with 3-5 questions relevant to the content. If you do not complete any in-video quizzes, you receive 0 points for that module.
- **Participation:** In addition to the live class sessions and the syllabus quiz, participation will be measured using module discussions that require you to post a response to the prompt and replies to at least two of your peers. Your posts should be substantive in nature and foster a healthy dialogue between peers about the material. Your initial post should be at least 250 words while replies to peers should be at least 100 words. In some



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KIN 3027 Fall 2023 Syllabus

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OBJECTIVES

Mid-Term Exam	20	1,2,3
Assignments	20	1,2,3,5,6
Lab Report	10	1-7
Narrative Review	30	1-6
In-Video Quizzes	13	1-7
Participation	-----	1,2,3,4,6,7
-----	100	
Total		

PERCENT GRADE POINTS GRADE

93-100	A	73-76	C
90-92	A-	70-72	C-
87-89	B+	67-69	D+
83-86	B	63-66	D
80-82	B-	60-62	D-
77-79	C+	0-59	F



KIN 3027 Fall 2023 Syllabus

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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.

INCOMPLETES AND LATE ASSIGNMENTS

All assignments are to be submitted/turned in by the beginning of the class session when they are due—including assignments posted in Canvas. Incompletes will only be assigned in extremely unusual circumstances.

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



KIN 3027 Fall 2023 Syllabus

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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.

ARTIFICIAL INTELLIGENCE (AI) POLICY

You are allowed to use Artificial Intelligence (AI) tools (e.g, ChatGPT, iA Writer, Marmot, Botowski) to generate ideas, but you are not allowed to use AI tools to generate content (text, video, audio, images) that will end up in any work submitted to be graded for this course. If you have any doubts about using AI, please gain permission from the instructor.

PLNU ACADEMIC ACCOMMODATIONS POLICY

While all students are expected to meet the minimum standards for completion of this course as established by the instructor, students with disabilities may require academic adjustments, modifications or auxiliary aids/services. At Point Loma Nazarene University (PLNU), these students are requested to register with the Disability Resource Center (DRC), located in the Bond Academic Center. (DRC@pointloma.edu or 619-849-2486). The DRC's policies and



KIN 3027 Fall 2023 Syllabus

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discrimination against students with special needs and guarantees all qualified students equal access to and benefits of PLNU programs and activities. After the student files the required documentation, the DRC, in conjunction with the student, will develop an AP to meet that student's specific learning needs. The DRC will thereafter email the student's AP to all faculty who teach courses in which the student is enrolled each semester.

The AP must be implemented in all such courses.

If students do not wish to avail themselves of some or all of the elements of their AP in a particular course, it is the responsibility of those students to notify their professor in that course. PLNU highly recommends that DRC students speak with their professors during the first two weeks of each semester about the applicability of their AP in that particular course and/or if they do not desire to take advantage of some or all of the elements of their AP in that course.

PLNU ATTENDANCE AND PARTICIPATION POLICY

Hybrid Format

At Point Loma Nazarene University, attendance is required at all scheduled classes. Adult Degree Completion courses are taught in the hybrid format, which means some class meetings will be face-to-face and some will be online.

Attendance in the face-to-face classes is to be for the entire time of the class. Arriving late or leaving early will be



KIN 3027 Fall 2023 Syllabus

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attendance are required each week. (It may be any three days during the week.)

Face-to-face Portion of the Hybrid course

In blended or hybrid courses, if a student misses one face-to-face class then the faculty member will send an email to the student and the Director of Student Success warning of attendance jeopardy. There are no exceptions to this policy.

If a student misses two face-to-face classes, the faculty member or Vice Provost for Academic Administration (VPAA) will initiate the student's de-enrollment from the course without further advanced notice to the student. If the date of de-enrollment is past the last date to withdraw from a class, the student will be assigned a grade of "F" and there will be no refund of tuition for that course.

Online Portion of the Hybrid Course

If a student misses two online classes (fails to contribute to a discussion board) during the course, then the faculty member will send an email to the student and the Director of Student Success warning of attendance jeopardy. There are no exceptions to this policy.

If a student misses three online classes (fails to contribute to a



KIN 3027 Fall 2023 Syllabus

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to the student. If the date of de-enrollment is past the last date to withdraw from a class, the student will be assigned a grade of "F" and there will be no refund of tuition for that course.

1 missed F2F class = warning

2 missed F2F classes = de-enrollment

2 missed online classes = warning

3 missed online classes = de-enrollment

Online Format

Students taking online courses are expected to attend each week of the course. Attendance is defined as participating in an academic activity within the online classroom which includes posting in a graded activity in the course. (Note: Logging into the course does not qualify as participation and will not be counted as meeting the attendance requirement.)

Students who do not attend at least once in any 3 consecutive days will be issued an attendance warning.

Students who do not attend at least once in any 7 consecutive days will be dropped from the course retroactive to the last date of recorded attendance.

SPIRITUAL CARE



KIN 3027 Fall 2023 Syllabus

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chaplain or have prayer requests you can contact the [Office of Spiritual Development](#)

DIVERSITY AND INCLUSION STATEMENT

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. It is my intent that students from all diverse backgrounds and perspectives be well-served by this course, that students' learning needs be addressed both in and out of class, and that the diversity that the students bring to this class be viewed as a resource, strength, and benefit. It is my intent to present materials and activities that are respectful of diversity: disability, age, socioeconomic status, ethnicity, race, nationality, religion, gender, sex, sexual orientation, and culture. Your suggestions are encouraged and appreciated. Please let me know ways to improve the effectiveness of the course for you personally, or for other students or student groups. To help accomplish this:

- If you have a name and/or set of pronouns that differ from those that appear in your official PLNU records, please let me know!
- If you feel like your performance in the class is being impacted by your experiences outside of class, please don't hesitate to come



KIN 3027 Fall 2023 Syllabus

Updated automatically every 5 minutes

identities. If something was said in class (by anyone) that made you feel uncomfortable, please talk to me about it.

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 also report an incident(s) using the [Bias Incident Reporting Form](#).

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 pointloma.edu/Title-IX. 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



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KIN 3027 Fall 2023 Syllabus

Updated automatically every 5 minutes

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.

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