

Course Syllabus

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Kinesiology Department

KIN 3040 L

1 Unit

Spring 2021

Meeting days: Monday	Jenny Mahoney, M.S. Part-Time Professor of Biology and Kinesiology
Meeting times: 6:00-7:50pm	Phone:
Meeting location: Online (via Zoom) Rohr 195	Email: jmahoney@pointloma.edu
Office location and hours: via Zoom, please email me to schedule a time to meet.	

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 course will provide practical experiences in assessing human physiological responses to exercise and training.

Specifically, this course will provide students the opportunity to learn how to use equipment in the laboratory, such as the metabolic cart; to collect, analyze, and interpret data from submaximal and maximal exercise tests; and to become proficient using Excel to analyze and visually display data.

COURSE LEARNING OUTCOMES

1. Demonstrate an understanding of muscle physiology by testing the basic principles (and analyzing the results) including: active and passive length-tension relationships and types of contractions (eccentric, concentric, isometric).
2. Measure and interpret the results of the following tests: resting energy expenditure, submaximal exercise test, and maximal exercise test.
3. Measure and interpret the results of both anaerobic power and capacity testing.
4. Measure and interpret the results of an anaerobic/lactate threshold test.
5. Apply the results of maximal oxygen uptake and anaerobic threshold testing to the prescription of continuous vigorous exercise as well as high-intensity interval training.
6. Be able to convert between various units of measure commonly used in exercise physiology.
7. Demonstrate mastery of graphing data in Microsoft Excel.

REQUIRED TEXTS AND RECOMMENDED STUDY RESOURCES

Material posted on Canvas.

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 1 unit class delivered over 16 weeks. Specific details about how the class meets the credit hour requirement can be provided upon request. (Based on 37.5 hours of student engagement per credit hour.)

Distribution of Student Learning Hours

Category	Time Expectation in Hours
Online Participation in Discussions, Groups, etc.	16
Watching lab videos	5.5
Written Assignments (lab reports)	16
Total Hours	37.5

*Please note that these are time *estimates* and the time that you spend on assignments may vary.

COURSE SCHEDULE AND ASSIGNMENTS

This semester we will spend two weeks on each lab. For the first 4 weeks of class, you are expected to watch the video of the lab on Monday since you have that time allotted in your schedule, and then you will have the rest of the week to work on your lab report. However, this is not "synchronous" (you may watch the lab on your own time). Dates noted as "LIVE CLASS" are for me to go over lab problems with you and to answer questions about your lab reports. *Please have your lab report as complete as possible PRIOR to these sessions.* I will not just tell you what to do; you need to show me that you've worked on your report first. Lab reports will be due the following Sunday to allow you time to apply what you learned from our live sessions to your lab reports. To access the Zoom sessions, please click on the Zoom link in your lefthand vertical navigation menu. The calendar with all Zoom links for the semester is there.

Starting 3/29, we will begin meeting face-to-face for the labs. The class is split into two teams, A and B, to follow the lab capacity limit. You can find which team you are assigned to [here](#) . The schedule at the bottom of this page indicates which week you will come into lab. You will only come into the lab on your assigned week, I cannot allow students to switch days or teams. Additionally, because of COVID, we will only have 1 subject perform each exercise test rather than multiple or all students getting to experience each exercise test. Lab reports will still be due on Sundays by 11:59pm, see below for due dates and links for assignments.

ASSESSMENT AND GRADING

Assignments for grades

Assignment	Point value	Due date
COVID 19 Preparedness	3	Friday 3/5 by 11:59pm
Syllabus Quiz	5	Sunday, 3/7 by 11:59 pm
Lab 1 report	25	Sunday, 3/14 by 11:59 pm
Lab 2 report	20	Sunday, 3/28 by 11:59 pm
Lab 3 report	25	Sunday, 4/11 by 11:59 pm
Lab 4 report	45	Sunday, 4/25 by 11:59 pm
Lab 5 report	35	Sunday, 5/9 by 11:59 pm
Lab 6 report	40	Sunday, 5/23 by 11:59 pm

Lab 7 report	45	Sunday, 6/6 by 11:59 pm
Lab 8 report	45	FRIDAY , 6/11 by 11:59 pm
Total points	288	

Final grades will be posted within one week of the end of the class. Grades will be based on the following:

Standard Grade Scale Based on Percentages

A 93.5-100	B+ 87.5-89.4	C+ 77.5-79.4	D+ 67.5-69.4	F Less than 59.4
A- 89.5-93.4	B 83.5-87.4	C 73.5-77.4	D 63.5-67.4	
	B- 79.5-83.4	C- 69.5-73.4	D- 59.5-63.4	

Student Success and Wellness Resources:

- Student Success and Wellness is prepared to support the medical, disability accommodation and mental health needs of our students as they complete coursework remotely and on-ground. Medical, Counseling and Disability Support services will continue to be available through virtual, telehealth and face-to-face offerings.

- For questions or assistance contact:
- Counseling Services 619-849-2574; sdwellnesscenter@pointloma.edu
(<mailto:sdwellnesscenter@pointloma.edu>)
- Disability Resource Center 619-849-2533; drc@pointloma.edu (<mailto:drc@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>)

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](https://www.pointloma.edu/offices/office-institutional-effectiveness-research/disclosures) (<https://www.pointloma.edu/offices/office-institutional-effectiveness-research/disclosures>) 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 accepted in extremely unusual circumstances. Late assignments incur a 50% deduction in earned grade on that assignment.

Corrected work: You will have **one chance** to correct your lab reports to still receive full credit. Corrected reports are due the week after they were returned. Assignments turned in late will *not* be eligible for this correction opportunity.

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. 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](http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278) [_ \(http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278\)](http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278) for definitions of kinds of academic dishonesty and for further policy information.

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 (<mailto:DRC@pointloma.edu>) or 619-849-2486). The DRC's policies and procedures for assisting such students in the development of an appropriate academic adjustment plan (AP) allows PLNU to comply with Section 504 of the Rehabilitation Act and the Americans with Disabilities Act. Section 504 (a) prohibits 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

Regular and punctual attendance at all synchronous class sessions and face-to-face 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](http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278) [_ \(http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278\)](http://catalog.pointloma.edu/content.php?catoid=18&navoid=1278) 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.

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) [_ \(https://www.pointloma.edu/offices/spiritual-development\)](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/TDClient/1808/Portal/KB/ArticleDet?ID=108349) [_ \(https://help.pointloma.edu/TDClient/1808/Portal/KB/ArticleDet?ID=108349\)](https://help.pointloma.edu/TDClient/1808/Portal/KB/ArticleDet?ID=108349) information.









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

KIN3040L Schedule S21 : Sheet1

Week	Date	Topic	Assignment Due Dates: Lab reports are due Sunday nights by 11:59 pm
1	Mon, Mar 1, 2021	Asynchronous: Watch Lab 1 video (calculations, graphing)	Syllabus quiz due on Sunday, 3/7 by 11:59 pm
2	Mon, Mar 8, 2021	LIVE CLASS Zoom to review lab 1 Qs	Lab 1 due on 3/14 by 11:59 pm
3	Mon, Mar 15, 2021	Asynchronous: Watch Lab 2 video (muscle length-tension relationship)	
4	Mon, Mar 22, 2021	LIVE CLASS Zoom to review lab 2 Qs	Lab 2 due on 3/28 by 11:59 pm
5	Mon, Mar 29, 2021	Lab 3 Team A (anaerobic power & capacity: Wingate test)	
6	Mon, Apr 5, 2021	Lab 3 Team B (anaerobic power & capacity: Wingate test)	Lab 3 due on 4/11 by 11:59 pm
7	Mon, Apr 12, 2021	Lab 4 Team A (exercise energy expenditure and EPOC)	
8	Mon, Apr 19, 2021	Lab 4 Team B (exercise energy expenditure and EPOC)	Lab 4 due on 4/25 by 11:59 pm
	Mon, Apr 26, 2021	Lab 5 Team A (VO2max)	

9	Mon, Apr 20, 2021	Lab 5 Team A (VO2max)	
10	Mon, May 3, 2021	Lab 5 Team B (VO2max)	Lab 5 due on 5/9 by 11:59 pm
11	Mon, May 10, 2021	Lab 6 Team A (lactate & ventilatory thresholds)	
12	Mon, May 17, 2021	Lab 6 Team B (lactate & ventilatory thresholds)	Lab 6 due on 5/23 by 11:59 pm
13	Mon, May 24, 2021	Lab 7 Team A (Critical Power)	
14	Mon, May 31, 2021	Lab 7 Team B (Critical Power)	Lab 7 due on 6/6 by 11:59 pm
15	Mon, Jun 7, 2021	LIVE CLASS Zoom to review lab 8 Qs (Watch video on own before - exercise prescription)	Lab 8 due by FRIDAY, 6/11 BY 11:59 pm

Date	Details	Due
Mon Mar 1, 2021	 Meet Your Instructor - Professor Mahoney	to do: 11:59pm
	 COVID-19 Preparedness https://canvas.pointloma.edu/courses/55195/assignments/621297	due by 11:59pm
Sun Mar 7, 2021	 Syllabus Quiz https://canvas.pointloma.edu/courses/55195/assignments/616367	due by 11:59pm
Mon Mar 8, 2021	 KIN3040L-1 SP21 - Physiology of Exercise Lab https://canvas.pointloma.edu/calendar?event_id=89221&include_contexts=course_55195	6pm to 8pm
Sun Mar 14, 2021	 Lab 1 report https://canvas.pointloma.edu/courses/55195/assignments/616369	due by 11:59pm
Mon Mar 22, 2021	 KIN3040L-1 SP21 - Physiology of Exercise Lab https://canvas.pointloma.edu/calendar?event_id=89223&include_contexts=course_55195	6pm to 8pm
Sun Mar 28, 2021	 Lab 2 report https://canvas.pointloma.edu/courses/55195/assignments/616370	due by 11:59pm
Mon Mar 29, 2021	 KIN3040L-1 SP21 - Physiology of Exercise Lab https://canvas.pointloma.edu/calendar?event_id=89224&include_contexts=course_55195	6pm to 8pm
Sun Apr 11, 2021	 Lab 3 report https://canvas.pointloma.edu/courses/55195/assignments/616371	due by 11:59pm
Mon Apr 12, 2021	 KIN3040L-1 SP21 - Physiology of Exercise Lab https://canvas.pointloma.edu/calendar?event_id=89226&include_contexts=course_55195	6pm to 8pm
Sun Apr 25, 2021	 Lab 4 report https://canvas.pointloma.edu/courses/55195/assignments/616372	due by 11:59pm

Date	Details	Due
Mon Apr 26, 2021	 KIN3040L-1 SP21 - Physiology of Exercise Lab (https://canvas.pointloma.edu/calendar?event_id=89228&include_contexts=course_55195)	6pm to 8pm
Sun May 9, 2021	 Lab 5 report (https://canvas.pointloma.edu/courses/55195/assignments/616373)	due by 11:59pm
Mon May 10, 2021	 KIN3040L-1 SP21 - Physiology of Exercise Lab (https://canvas.pointloma.edu/calendar?event_id=89230&include_contexts=course_55195)	6pm to 8pm
Sun May 23, 2021	 Lab 6 report (https://canvas.pointloma.edu/courses/55195/assignments/616374)	due by 11:59pm
Mon May 24, 2021	 KIN3040L-1 SP21 - Physiology of Exercise Lab (https://canvas.pointloma.edu/calendar?event_id=89232&include_contexts=course_55195)	6pm to 8pm
Sun Jun 6, 2021	 Lab 7 report (https://canvas.pointloma.edu/courses/55195/assignments/616375)	due by 11:59pm
Mon Jun 7, 2021	 KIN3040L-1 SP21 - Physiology of Exercise Lab (https://canvas.pointloma.edu/calendar?event_id=89234&include_contexts=course_55195)	6pm to 8pm
Fri Jun 11, 2021	 Lab 8 report (https://canvas.pointloma.edu/courses/55195/assignments/616376)	due by 11:59pm