Kinesiology Department

KIN 6036 Clinical Exercise Testing & Interpretation

3 Units

Spring 2026 Quad 1

Meeting days: Wednesdays 01/14-03/04	
Meeting times: 5:30 - 7:30pm	**Phone: TBA**
Meeting location: Balboa RM156 & HPL	**E-mail: ksnyman@pointloma.edu**
Final Exam: CANVAS due online open from 02/25 – 02/28 (4 hour exam window)	**Office location and hours: KIN Office #106 or zoom** **Office hours Balboa: W: 3:30 – 4:30pm; F: 10 – 2:00 pm & by appointment via zoom on M & evenings on F**

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 covers a broad range of skills and information important in exercise testing

and interpretation for both clinical and preventative health applications. The lecture and

online content will provide practical information regarding clinical conditions and

applications to health prevention and promotion encountered during exercise testing. The

laboratory sessions are designed to develop specific and practical competencies in

exercise testing skills. Skill development will include the use of muscular function & strength assessment, pulmonary assessment, CPET & metabolic assessment, electrocardiography (ECG),

and body composition.

This class prepares students to sit for the ACSM Clinical Exercise Physiologist Certification Examination (if appropriate clinical hours are accumulated).

COURSE LEARNING OUTCOMES & Schedule

Competency	Performance Domains and Associated Competencies	Lecture, Lab, or both
I.A.1.a	Knowledge of the procedure to obtain patient's medical history through available documentation.	Lecture
I.A.1.b	Knowledge of the necessary medical records needed to properly assess a patient, given their diagnosis and/or reason for referral.	Both
I.A.1.c	Knowledge of the procedure to obtain physician referral and medical records required for program participation.	Lab
I.A.1.d	Knowledge of information and documentation required for program participation.	Lab
I.A.2.a	Skill in interpreting information from medical records in patient care and/or exercise prescription.	Lab
I.A.2.b	Skill in assessing various vital signs.	Lab
I.A.2.c	Skill in assessing participant physician referral and/or medical records to determine program participation status.	Lab
I.B.1.a	Knowledge of establishment of rapport through health counseling techniques (e.g., the patient-centered approach), and nonjudgmental positive regard in creation of collaborative partnership.	Both
I.B.1.b	Knowledge of use of open-ended inquiry, active listening and attention to nonverbal behavior, interest and empathy.	Both
I.B.1.c	Knowledge of information and documentation required for program participation.	Both
I.B.1.d	Knowledge of the procedure to obtain informed consent from patient to meet legal requirements.	Both

I.B.1.e	Knowledge of commonly used medications in patients with chronic diseases, their mechanisms of action, and side effects.	Lecture
I.B.2.a	Skill in administering informed consent.	Lab
I.B.2.b	Skill in interviewing patient for medical history pertinent to the reason for their visit and reconciling medications.	Lab
I.B.2.d	Skill in data collection during baseline intake assessment.	Lecture
I.C.1.a	Knowledge of best practice-based intake assessment tools and techniques to assess and interpret clinical and health measures (e.g., height, weight, anthropometrics, body mass index, resting energy expenditure).	Lab
I.C.1.b	Knowledge of medical therapies for chronic diseases and their effect on resting vital signs and symptoms.	Lecture
I.C.1.c	Knowledge of normal cardiovascular, pulmonary and metabolic anatomy and physiology.	Lecture
I.C.1.d	Knowledge of techniques for assessing signs and symptoms (e.g., peripheral pulses, blood pressure, edema, pain).	Lab
I.C.1.e	Knowledge of 12-lead and telemetry ECG interpretation for normal sinus rate and rhythm or abnormalities (e.g., arrhythmias, blocks, ischemia, infarction).	Lab
I.C.1.f	Knowledge of ECG changes associated with, but not limited to, drug therapy, electrolyte abnormalities, myocardial injury and infarction, congenital defects, pericarditis, pulmonary embolus and the clinical significance of each.	Both
I.C.2.a	Skill in administering and interpreting resting biometric data to determine baseline health status.	Lab
I.C.2.c	Skill in assessing vital signs and symptoms at rest.	Lab
I.D.1.b	Knowledge of abnormal responses/signs/symptoms to exercise associated with different pathologies (e.g., cardiovascular, pulmonary, metabolic).	Lecture
I.D.1.c	Knowledge of pertinent areas of a patient's medical history (e.g., any symptoms since their procedure, description of discomfort/pain, orthopedic issues).	Lab
I.D.1.d	Knowledge of indications and contraindications to exercise	Lecture

	testing and training.	
I.D.1.e	Knowledge of current published guidelines for treatment of cardiovascular, pulmonary and metabolic pathologies (e.g., American College of Cardiology/American Heart Association [ACC/AHA] Joint Guidelines, Global Initiative for Chronic Obstructive Lung Disease [GOLD], American Diabetes Association [ADA]).	Lecture
I.D.1.f	Knowledge of industry recognized preparticipation health screening practices (e.g., the Physical Activity Readiness Questionnaire for Everyone [PAR-Q+], ACSM's preparticipation screening algorithm).	Both
I.D.1.j	Knowledge of methods used to obtain a referral for clinical exercise physiology services.	Lecture
I.D.2.a	Skill in implementing industry-recognized preparticipation health screening practices	Lab
I.D.2.b	Skill in administering informed consent.	Lab
I.D.2.c	Skill in selecting an exercise test based on a patient's disease, condition and ability.	Both
I.D.2.d	Skill in determining risk and level of monitoring of patient using health history, medical history, medical records and additional diagnostic assessments.	Both
I.E.1.j	Knowledge of a variety of behavioral assessment tools (e.g., SF-36, health-related quality of life, Chronic Respiratory Disease Questionnaire) and strategies for their use.	Lab
I.E.1.k	Knowledge of recognizing adverse effects of exercise in apparently healthy persons or those with chronic disease.	Both
II.A.1.a	Knowledge of recognizing adverse effects of exercise in apparently healthy persons or those with chronic disease.	Both
II.A.1.b	Knowledge of the acute and chronic responses to aerobic exercise on the function of the cardiovascular, respiratory, musculoskeletal, neuromuscular, metabolic, endocrine and immune systems in trained and untrained individuals.	Lecture

II.A.1.d	Knowledge of the effect of chronic diseases on acute and chronic responses to aerobic exercise.	Lecture
II.A.1.f	Knowledge of typical submaximal aerobic test results and physiological values in trained and untrained individuals and those with and without chronic diseases.	Lecture
II.A.1.g	Knowledge of abnormal signs and symptoms in apparently healthy individuals and those with chronic disease.	Lecture
II.A.1.h	Knowledge of abnormal readings and results from exercise testing equipment (e.g., treadmill, ergometers, electrocardiograph, spirometer, metabolic cart, sphygmomanometer) that may indicate equipment malfunction.	Both
II.A.1.l	Knowledge of commonly used medications in patients with chronic diseases, their mechanisms of action and side effects.	Lecture
II.A.2.a	Skill in selecting the appropriate exercise test based on a patient's disease, condition and ability.	Both
II.A.2.b	Knowledge of the acute and chronic responses to aerobic exercise on the function of the cardiovascular, respiratory, musculoskeletal, neuromuscular, metabolic, endocrine and immune systems in trained and untrained individuals.	Lecture
II.B.1.b	Knowledge of the acute and chronic responses to resistance exercise on the function of the cardiovascular, respiratory, musculoskeletal, neuromuscular, metabolic, endocrine and immune systems in trained and untrained individuals.	Lecture
II.B.1.d	Knowledge of the acute and chronic responses to flexibility and mobility exercise on the function of the cardiovascular, respiratory, musculoskeletal, neuromuscular, metabolic, endocrine and immune systems.	Lecture
II.B.1.e	Knowledge of the mechanisms underlying the acute and chronic responses to resistance exercise on the function of the cardiovascular, respiratory, musculoskeletal, neuromuscular, metabolic, endocrine and immune systems in trained and untrained individuals.	Lecture
II.B.1.f	Knowledge of the effects of chronic diseases and their treatments on acute and chronic responses to resistance exercise, and an individual's flexibility and mobility.	Both

II.B.1.g	Knowledge of standard and/or disease-specific endpoints for muscular strength, endurance, functional and balance testing in apparently healthy individuals and those with chronic disease.	Both
II.C.1.a	Knowledge of contraindications to symptom-limited, maximal exercise testing and factors associated with complications (e.g., probability of coronary heart disease, abnormal blood pressure).	Lecture
II.C.1.b	Knowledge of medical therapies for chronic diseases and their effect on the physiologic response to exercise.	Lecture
II.C.1.c	Knowledge of current practice guidelines/recommendations (e.g., AHA, Arthritis Foundation, National Multiple Sclerosis Society) for the prevention, evaluation, treatment and management of chronic diseases.	Lecture
II.C.1.d	Knowledge of the timing of daily activities (e.g., medications, dialysis, meals, glucose monitoring) and their effect on exercise in patients with chronic diseases.	Lecture
II.C.1.e	Knowledge of cardiovascular, pulmonary and metabolic pathologies, their clinical progression, diagnostic testing and medical regimens/procedures to treat.	Lecture
II.C.1.g, I, k,m , n	Knowledge of abnormal signs and symptoms in apparently healthy individuals and those with chronic disease; Knowledge of commonly used medications in patients with chronic diseases, their mechanisms of action and side effects; Knowledge of commonly used medications in patients with chronic diseases, their mechanisms of action and side effects; knowledge of tests to assess maximal exercise tolerance; knowledge of the physiologic responses during incremental exercise and maximal exertion in trained and untrained individuals and those with chronic diseases.	Lecture
II.C.1.o-q	Knowledge of standard and/or disease-specific endpoints for maximal exercise testing in apparently healthy individuals and those with chronic disease; Knowledge of typical maximal exercise test results and physiological values in trained and untrained individuals and those with and without chronic diseases; knowledge of medical therapies for chronic diseases and their effect on clinical measurements and the physiologic response to maximal exercise.	Both
II.C.2.c	Skill in assessing vital signs and symptoms at rest and during	Lab

	exercise.	
II.D.1.f	Knowledge of the interpretation of maximal exercise test measures (e.g., ECG response, oxygen saturation, rate-pressure product, claudication) and prognostic tools (e.g., Duke Treadmill Score) in context with the indication for the test, termination reason and the patient's medical history.	Both
II.E.1.ab	Knowledge of absolute contraindications and endpoints for terminating exercise testing; Skill in interpreting and reporting results from a symptom-limited, maximal exercise test; Skill in assessing vital signs and symptoms at rest and during exercise.	Lecture
III.A.1.f	Knowledge of the timing of daily activities and their effect on exercise training in patients with chronic disease	Lecture
III.A.1.k, III.B.1.e	Knowledge of proper biomechanical technique for exercise	Lab
III.B.1.a	Knowledge of normal and abnormal physiologic responses to exercise in healthy individuals and those with chronic diseases.	Lecture
III.B.1.b	Knowledge of the timing of daily activities and their effect on exercise training in patients with chronic disease and how to communicate this information with patient	Lecture
III.D.1.c, IV.A.1.g	Knowledge of the timing of daily activities (medications, dialysis)	Lecture
IV.A.1.e	Knowledge of diagnostic testing and medical regimens/procedures to treat.	Lecture
IV.A.1.j	Knowledge of commonly used medication for cardiovascular, pulmonary and metabolic diseases.	Lecture
IV.B.1.a	Knowledge of the selection, operation and modification of exercise equipment/modalities based on the disease, condition and ability of the individual.	Lab
IV.B.1.h	Knowledge of the benefits and risks of aerobic, resistance and flexibility training in apparently healthy individuals and those with chronic disease.	Lecture
IV.C.1.a	Knowledge of normal and abnormal exercise responses, signs and symptoms associated with different pathologies	Both
IV.C.1.c	Knowledge of exercise program monitoring (e.g., telemetry, oximetry, glucometry)	Lab

IV.C.1.h	Knowledge of timing of daily activities with exercise	Lecture
IV.C.1.f	Knowledge of the components of a patient's medical history necessary to screen during program participation.	Both
IV.D.1.e	Knowledge of cardiovascular, pulmonary, and metabolic pathologies, diagnostic testing and medical management regimens and procedures	Lecture
IV.E.1.a	Knowledge of the techniques used to diagnose different pathologies, their indications, limitations, risks, normal and abnormal	Both
IV.E.1.d	Knowledge of how chronic diseases may affect the acute and chronic responses to exercise training	Lecture
IV.G.1.d	Knowledge of the effects of chronic diseases on the acute and chronic responses to exercise training.	Lecture
IV.G.2.a	Skill in assessing normal and abnormal response to exercise.	Lab
V.B.1.k	Knowledge of abnormal signs and symptoms during rest and exercise in apparently healthy individuals and those with chronic disease.	Both
V.B.1.p	Knowledge of risk factor reduction strategies (e.g., healthy nutrition, weight management/BMI, body composition, smoking cessation, stress management, back care, substance abuse).	Lecture
V.B.2.b	Skill in communicating health information based on a patient's learning style and health literacy.	Lab
V.B.1.k	Knowledge of abnormal signs and symptoms during rest and exercise in apparently healthy individuals and those with chronic disease.	Both
V.B.1.p	Knowledge of risk factor reduction strategies (e.g., healthy nutrition, weight management/BMI, body composition, smoking cessation, stress management, back care, substance abuse).	Lecture
V.D.1.f	Knowledge of tools for measuring clinical exercise tolerance (e.g., heart rate, glucometer, subjective rating scales), and consideration of affect regulation in determining exercise prescription.	Both

VI.A.2.d	Skill in the use of medical terminology	Both
VI.A.1.d	Knowledge of current practice and guidelines/recommendations for the prevention, evaluation, treatment, and management of chronic disease	Lecture

1.   Health Screening & Risk Stratification (week 1)

a.   Complete CITI TRAINING by Friday (or submit certificate)

b.   Learn to appropriately administer a: Informed consent, health history questionnaire, PAR-Q, and ACSM Risk stratification. Use all data and complete a formal write-up appraisal of a client.

c.   Learn and apply ACSM Fitness & Health Standards and health outcomes

ACSM standards addressed in module 1

Domain I (Assess a patient's medical record for information related to their visit): I.A.1.a, I.A.1.b, I.A.1.c, I.A.1.d, I.A.1.d (risk factors), I.A.2.a, I.A.2.b, I.A.2.c

Domain I (Interview patient regarding medical history for their visit and reconcile medications): I.B.1.a, I.B.1.b, I.B.1.c, I.B.1.d, I.B.1.e (medications, mechanisms of actions & side effects), I.B.2.a,b,c,d

Domain I (Obtain and assess resting biometric data: resting): I.C.1a,b,d,; I.C.2a,c

Domain I (Determine a sufficient level of monitoring/supervision based on a pre-participation health screening): I.D.1c,d,f,j; I.D.2.a,b,c,d

Domain I (Assess patient goals, needs, and objectives based on health and exercise history, motivation level, and physical activity readiness): I.E.1.b,c,e,h,j,k

Domain IV: Exercise Training and Leadership: IV.C.1.f; IV.D.2.a,b

2.   Cardiopulmonary metabolic assessment (CPET) Lab Maximal & Submaximal (week 2 & 3)

a.   Identify key physiology for cardiovascular diseases & associated exercise risks

b.   Critically apply health risk to identify appropriate CPET testing modality

c.   Learn how to apply oxygen consumption reserve (VO2R) during training and exercise assessment.

d.   Lab: Administration of submaximal CPET tests (With metabolic cart), Step-test, 6-minute walk/1.5 mile run

Week 3:

e.   Lab: Independently calibrate and administer maximal CPET testing with BP. Exercise protocol: ACSM predicted ramp

ACSM standards addressed in module 2

Domain II (Select, administer, and interpret submaximal aerobic exercise tests; e.g. treadmill, step-test, 6-minute walk):II.A.1.a,b,c,d,c,f,g,h,I ; II.A.2.a,b,c

Domain II (Select, prepare, and administer maximal, symptom-limited exercise tests): II.C.1.a,b,c,e,f,g,h,k,l,m,n,o,p,q ; II.C.2.a,c,d

Domain II (Identify relative and absolute contraindications for test termination and report to medical personnel as needed): II.E.1.a,b,c

Domain III (Communicate the exercise prescription, including the use of exercise equipment, and the importance of promptly reporting any adverse reactions or symptoms): III.B.1.a

Domain IV: Exercise Training and Leadership: IV.C.1.c; IV.G.1.d

3.   Electrocardiogram (Week 4- Video Lecture only)

a.   learn the basics of ECG placement and measurement theory

b.   Learn how to apply heart rate reserve, maximal, and resting HR principles during training and exercise assessment

ACSM standards addressed in module 3

Domain I Patient Assessment (Obtain and assess resting biometric data): I.C.1.e,f; I.C.2.b

Domain II Exercise Testing (Select, prepare, and administer maximal, symptom-limited exercise tests): II.C.1.j, II.C.2.h, II.C.2.d; II.D.1.f, II.E.2.c

Domain V: V.B.1.k, V.B.1.p, V.B.2.b; V.D.1.f

4.   Pulmonary (Week 5)

a.   identify key physiology for pulmonary diseases & associated exercise risks

b.   Critically appraise flow volume loop data and lung volumes

c.   Lab: practice administering and participating in pulmonary testing followed by interpretation

ACSM Standards addressed in module 4

Domain I: Patient Assessment: I.C.1.c,f; I.D.1.b, e

Domain II: Exercise Testing: II.C.1.e, II.D.1,f

Domain V: V.B.1.k, V.B.1.p, V.B.2.b; V.D.1.f

5.   Muscle Strength & Power (Week 6)

a.   Identify key physiology associated with musculoskeletal diseases & conditions as well as associated exercise risks.

b.   Lab: Independently administer anaerobic power, muscular strength & endurance assessments. Students will also participate in this testing

ACSM Standards addressed in module 5

Domain II: Exercise Testing: II.A.1.b,c ; II.B.1.b,d,e; II.B.2.d

Domain V: V.B.1.k, V.B.1.p, V.B.2.b, V.D.1.f

6.   Muscle Activation (Week 7)

a.   Review Electromyography principles & placement considerations

b.   Complete EMG lab and interpretation activities during submaximal to maximal strength assessment

ACSM Standards addressed in module 6

Domain II: Exercise Testing: II.A.1.b,c ; II.B.1.b,d,e; II.B.2.d

Domain V: V.B.1.k, V.B.1.p, V.B.2.b; V.D.1.f

7.   Clinical Case Study

a.   Students will present a clinical case study: Clinical Physiology condition, disease, disorder.

      i.   Presentation of disease or disorder

     ii.   Patient Screening considerations

    iii.   Testing Recommendations & Response Expectations

1.   Submaximal

2.   Maximal testing

3.   Contraindications

4.   Evidence for Impact of Exercise on Disease/Disorder

ACSM Standards addressed in module 7

Domain IV: Exercise Training and Leadership: IV.A.1.e,j; IV.B.1.a,h

COURSE SCHEDULE AND ASSIGNMENTS

Rubrics for the article presentation, lab reports, take-home exams, and synthesis table are posted on Canvas under each assignment's directions.

1.   Readings: Peer-reviewed journal articles and textbook reading excerpts will be posted on Canvas for each week.

2.   Lecture Videos/ Slide Decks: Week 2 – 8 will include lecture videos / Detailed Slide Decks to view prior to coming to class. A canvas quiz associated with the videos will be administered within the first 20 minutes of class during those applicable weeks.

3.   Lecture/discussion: Most classes will be heavily focused on hands-on laboratory activities. Class meetings will begin with a short learning assessment quiz based on posted video materials, lab activities, followed by a short re-cap lecture & discussion of how to apply/interpret data collected during the lab activities.

4.   Quizzes: Class meetings will begin with a short learning assessment quiz based on posted video materials. Quiz questions will be T/F, M/C and must be completed via canvas within class. (6 total)

5.   Laboratory: A significant portion of class will focus on hands-on laboratory activities. Students must dress prepared to both administer and be a participant for all exercise testing. Everyone will have a chance to participate in both roles. Closed toed shoes and appropriate exercise attire required. There are 7 lab reports.

6.   Lab reports: There will be lab reports associated with Week 1 – 8 activities. All reports are due the following week (Wednesday) by the start of class time with the exception of the final calculation scenario lab (Week 8). Lab reports can be completed with a partner but both partners must contribute equally and names of collaborating partners must be included on all submitted materials (each person must submit their own report).

7.   Exams: There will be three examinations in the class. Each exam will be a mixture of multiple choice and short response questions. All exams will be administered on Canvas using honor lock. The exam window will be 3 hours in duration but should only take 60 – 90 minutes to complete.

8.   Individual presentation: Week 8 will be a case study presentation day. Individual presentations. 15- 20 minutes each. + Class time to work on the final lab report (ACSM calculations).

9.   Clinical Synthesis: Students will choose 1 pathological condition discussed (or not discussed) in class and complete a clinical synthesis table. The table will include a minimum of 8 peer-reviewed articles that discuss the condition's physiology, pathology, exercise considerations, and the effect of exercise on the condition (a single article does not have to have each of these topics). The synthesis report will be in written essay format using within-text APA citation formatting.

All examinations must be <u>taken completely independently</u>. Honor lock will be utilized but you are permitted to have a single 8x11" paper (double-sided) with notes during the exam period. A regular calculator (no graphing calculators) is permitted during all exams. All short response questions must be in your own words or, if using academic sources, have appropriate APA citation formatting. Any

work in class that involves a calculation requires you to show all math for full credit. Work may be typed within the exam itself or handwritten and submitted using the "Exam _ Calculation Work" submission link.

DATE		LOCATION	CLASS CONTENT OR ASSIGNMENT	ASSIGNMENT DUE DATE
Week 1	1/14	RM156	**Class: Introduction, Health Assessment & Risk Stratification**	
Week 2	1/21	RM156 & HPL& CHP	**Class: Cardiovascular Disease Pathology & Risk; Lab: CPET** **Metabolic cart overview practical, Submaximal testing (Bruce)**	**Pre-lecture materials quiz 1;** **Lab 1 report due**
Week 3	1/28	RM156 & HPL	**Class: CVD continued (if needed) Lab: CPET** **Maximal GXT testing, BP rest and exercise, resting ECG***	**Pre-lab materials quiz 2**
Exam 1 Due by 01/27 at 11:59pm PST Canvas (3 hr honor lock once opened)				
Week 4	2/4	RM156 & HPL *no F2F mtg	Electrocardiogram principles, testing, & interpretation (normal and pathological) Basic interpretation of ECG video lecture	**Pre-lecture materials quiz 3;** **Lab 2 report due**
Week 5	02/11	RM156 & HPL	**Pulmonary Pathology & Interpretation.** **Lab: Pulmonary flow volume & capacity testing and interpretation**	**Pre-lecture materials quiz 4;** **Lab 3 report due**

Week 6	02/18	RM156 & HPL	**Muscular Strength & Power Assessment & Interpretation** **Neuromuscular Assessment (EMG)** **Lab: submaximal & maximal strength assessment**	**Pre-lecture materials quiz 5;** **Lab 4 report due**
Week 7	02/25	PL Campus Rohr 195	**Body Composition Lab**	**Pre-lecture materials quiz 6;** **Lab 5 report due**
Week 8	03/05*	RM156	**Final Clinical Synthesis presentation (15 – 20 minutes each)** **Final ExRX interpretationlab due 03/06 at 11:59pm PST** ***in person lab practical sign ups**	**Clinical synthesis report due** **; final lab report due 03/06**

REQUIRED MATERIALS AND RECOMMENDED STUDY RESOURCES

Required:
Top of Form

Bottom of Form

[ACSM's Guidelines for Exercise Testing and Prescription - With ACSM Guidelines](#) **By American College Of Sports Medicine Staff; Edition : 10TH 18; Publisher : LIPP/W+W; ISBN 13 : 9781496391308**

Additional required materials will be provided via canvas PPT decks, videos, and articles

Recommended:

1.   **Exercise Testing and Interpretation*. Cooper. First Edition, CAMB. ISBN 13: 9780521648424***

2.   Exercise Physiology: Human Bioenergetics and Its Applications. Brooks, Fahey, and Baldwin. Fourth Edition, McGraw Hill. ISBN-10: 0072556420

3.   Please take advantage of our library's resources! http://libguides.pointloma.edu/kinesiology Our librarians are very responsive and helpful.

ASSESSMENT AND GRADING

Item	Points per assignment	Total points	Percent of total points		
1. Pre-lecture Quizzes	6 @ 10 points	60	~9.6%		
2. Lab Write ups	7 @ 25 points each	175	~28%		
3.Practical Exam	1 @ 200 points	200	~32%		
5. Clinical Synthesis Report	1 @ 100 points	100	~16%		
6. Lab participation	6 @ 15 points	90	~14.4%		
Total		625	100%		

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

Students must complete the required program hours in the major (program) from Point Loma Nazarene University with a minimum grade of "C" in each course and an overall 2.00 grade point average.

INCOMPLETES AND LATE ASSIGNMENTS

Assignments not turned in by the <u>day and time</u> they are due will immediately lose 50% of possible points. *Please be do NOT wait until last minute to submit assignments!* Technology difficulties are not an acceptable excuse for late work. No late work accepted 24hr+ due date. No late exams accepted.

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. In the case of this course, that means submitting your final take-home exam by 11:59 pm on Friday, March 1st at 11:59pm PST.

COMMUNICATION

Canvas announcements and email will be the main forms of communication used by the professor outside of class. Students are expected to check their @pointloma.edu email at least daily. Please ensure that your Canvas course settings are customized for you to receive course announcements as an email. Any information I communicate via email, I will expect you to know.

SPIRITUAL CARE

PLNU Balboa Campus:

PLNU strives to be a place where you grow as whole persons. To this end we provide resources for our graduate students to encounter God and grow in their Christian faith. At the Balboa campus we have an onsite chaplain, Rev. Kevin Portillo who is available during class break times across the week. If you have questions, desire to meet with Rev. Portillo or prayer requests you can contact him directly at KevinPortillo@pointloma.edu.

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 Academic Policies in the Graduate and Professional Studies Catalog for definitions of kinds of academic dishonesty and for further policy information.

PLNU ARTIFICIAL INTELLIGENCE POLICY

Use of Artificial Intelligence (AI) tools (e.g, ChatGPT, iA Writer, Marmot, Botowski) is not permitted, and use of these tools will be treated as plagiarism.

PLNU ACADEMIC ACCOMMODATIONS POLICY

If you have a diagnosed disability, please contact the Center for Student Success (CSS) within the first two weeks of class to demonstrate need and to register for accommodation by phone at 619.563.2810. You may also ask your academic advisor or program director for any additional accommodation information.

PLNU ATTENDANCE AND PARTICIPATION POLICY

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 can file a written report which may result in 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 in the Graduate and Professional Studies Catalog for additional detail.

GPS Academic Resources

PLNU offers the following free academic resources virtually for Graduate Professional Studies (GPS) Students. Visit myPLNU through the links below for more information.

- **The GPS Writing Center offers:**

    - **Zoom Writers Workshops offered each quad on a variety of helpful topics**

    - **One-to-one appointments with the Writing Coach**

    - **Microlearning YouTube Video Library for helpful tips anytime**

- **Research Help Guide** to help you start your research

    - The physical office is located on the third floor of the Mission Valley Regional Center off the student lounge

- **Academic Writing Resources Course**: Found on your Canvas Dashboard, this course is non-credit with 24/7 access, no time limits, and self-paced content. Watch a quick video run-through and take time now to explore!

- **Grammarly**: Students have unlimited FREE access to Grammarly for Education, a trusted tool designed to help enhance writing skills by providing real-time feedback, identifying areas for improvement, and providing suggestions. Grammarly's Generative AI is NOT available with our student accounts.

- **Tutoring:** Students have access to 24/7 live or scheduled subject tutoring through Tutor.com, including a Paper Drop-Off Service with feedback within 12 hours.