

SYLLABUS

Course: **Integrative Review of Basic Sciences PATH 240**
1.5 units, 22 hours (2 hours lecture/week)

Course description: This course is designed to review, integrate, and expand upon subject matter that the student has been introduced to in the previous quarters. It is designed as the primary benchmark for assessment of Student Learning Outcomes of the Basic Sciences through and inclusive of the Sophomore I and Sophomore B academic program at LCCW. It is also a review for the expectations of National Boards Part I.

Prerequisites: PATH-217, CHEM-223, ANAT-219, PHPA-212, PHPA-213, ANAT-125.

Department: Basic Science.

Required Text: No required text for class – All previous textbooks and lecture material from subject matter covered will be utilized in class. Syllabus, PowerPoint presentations and worksheets will be posted on Canvas (Limited Moodle, no longer being updated).

There will be class handouts distributed during the quarter.

Following the administration of a pretest, there will be a series of lecture/reviews and activities covering the areas of basic science. These will be done with power point presentations, review problems/discussions in class and an emphasis of the SLO's from the respective syllabi. There will be weekly quizzes and presentations

Evaluation:

Weekly quizzes and in class assignments 70%

QUIZZES ARE GIVEN WITHIN THE FIRST 10 MINUTES OF CLASS

Study Plan Development and Presentation for Part 1 Chiropractic Boards 25%

Final Exam 5%

Method of Instruction: Active learning through course discussion, group work, presentations, lectures, games and quizzes.

Grades and the Grading System Final Grades are available online through the CAMS student portal. If there are any questions on grading procedures, computation of grade point average, or the accuracy of the grade report, please contact the Registrar's Office or the Office of Academic Affairs. Grades will be reported and evaluation will be based on the Academic Policies, Procedures, & Services. Please refer to Evaluation Policy (**Policy ID: OAA.0007**)

In order to maintain **Satisfactory Academic Progress**, a student must maintain a 2.0 or better in each and every course. **Any grade less than a C must be remedied by repeating the class.** Please refer to Satisfactory Academic Progress (**Policy ID: OAA.0006**)

Attendance: Please refer to Attendance Policy (**Policy ID: OAA.0002**)

Conduct and

Responsibilities: Please refer to the Personal Conduct, Responsibility and Academic Responsibility Policy (**Policy ID: OAA.0003**)

Quizzes are given within the first 10 min of class and students get 15 minutes to complete a 10-15-question quiz. If you are late you only get the allotted time. If you miss the quiz you CANNOT make it up unless you have an excused absence.

Make-up Exams: Please refer to Make-up Assessment Policy (**Policy ID: OAA.0001**)

Request for

Special Testing: Please refer to Request for Special Testing (**Policy ID: OAA.0004**)

Accommodation

for Students with Disabilities:

If you have approved accommodations, please make an appointment to meet with your instructor as soon as possible. If you believe you require an accommodation, but do not have an approved accommodation letter, please see the Academic Counselor Lori Pino in the Office of Academic Affairs. Contact info: Lpino@lifewest.edu or 510-780-4500 ext. 2061. Please refer to Service for Students with Disabilities Policy (**Policy ID: OAA.0005**)

Electronic Course Management:

Canvas is LCCW's Learning Management System (LMS). Canvas will be used throughout the quarter during this course. Lectures, reminders, and messages will be posted. In addition, documents such as the course syllabus and helpful information about the class project will be posted. Students are expected to check Canvas at least once a week in order to keep updated. The website address for Canvas is <https://lifewest.instructure.com/login/canvas> Please refer to the Educational Technologies Policy (**Policy ID: OAA.0009**)

Course Goals:

1. To apply student learning objectives and current knowledge base to a modern day health ailment or case study
2. To review/reintroduce anatomy, physiology, chemistry, and pathology basics in an active learning method.
3. Identify what subject areas are retained by students and what areas will be necessary to focus future review efforts
4. Identify new active learning methods that the student and instructor find useful for future courses

Course Objectives: Students will review and apply previously taught basic science concepts to the 2014 Statin guidelines. **When Actual Subjects may be presented may shift based on pre-test performance**

Week 1 – Introduction to course and how student will be evaluated throughout the quarter.

- Pre-test will be given that day. It is a 60 question multiple-choice exam
- This exam does not count towards the student grade but will be used as an assessment tool by LWCC to identify student retention of previous material and areas of focus for this course

Week 2 – Biochemistry Review –Principles in metabolic regulation: Glucose and Glycolysis

- Student will be able to identify and outline gluconeogenesis/glycolysis
- Student will be able to define key biochemistry terminology
- Student will be able to complete fill in the blank activities involving biochemistry

Week 3 – General review of CNS, Spinal Anatomy, Neurology

- As a group activity students will be presented with a case
- Student will be able to identify where lesion occurs and explain why patient presents with described symptomology
- Student will discuss tracts, lesions, and cases of patients

Week 4– Nutrition review

- Student will be able to categorize fat and water soluble vitamins
- Student will generate a study guide distinguishing the nutrient and importance in human health
- Students will be able to describe deficiencies for each nutrient discussed

Week 5 – Pathology Review

- Students will be presented with pathology questions in a Jeopardy game format
- Each question will be analyzed and broken down by students
- Answer options will be discussed and analyzed

Week 6 – Anatomy

- Students will present the origin, insertion and innervation of muscles for major joint systems
- Students will be able to identify and describe ligaments that stabilize major joint systems in the body

Week 7 – Presentations – each student will be a 10 minute presentation on the most commonly question the pre- test

Week 8 – Presentations – each student will be a 10 minute presentation on the most commonly question the pre- test

Week 9 – Presentations- each groups of students will give a 10 min presentation on most commonly missed questions from pre-test

Week 10 – Post test

A National Boards Part 1 Exam-like exam will be given to students for evaluation on retention and application of basic science knowledge.

Week 11- Final Exam

Student Learning Outcomes:

1. To reinforce basic science concepts that were introduced in biochemistry, nutrition, anatomy and physiology, pathology, and other course work. [PLO 1,2,3,4,6]
2. Assess student readiness for national boards part 1 exam. [PLO 1,2,3]
3. Analyze question structure and answer choices in different subject areas to identify best answer choices when student does not know the answer to the question. [PLO 1,2]

Program Learning Outcomes (PLO): Students graduating with a Doctor of Chiropractic degree will be proficient in the following:

1. **ASSESSMENT AND DIAGNOSIS:** An assessment and diagnosis requires developed clinical reasoning skills. Clinical reasoning consists of data gathering and interpretation, hypothesis generation and testing, and critical evaluation of diagnostic strategies. It is a dynamic process that occurs before, during, and after the collection of data through history, physical examination, imaging, laboratory tests and case-related clinical services.
2. **MANAGEMENT PLAN:** Management involves the development, implementation and documentation of a patient care plan for positively impacting a patient's health and well-being, including specific therapeutic goals and prognoses. It may include case follow-up, referral, and/or collaborative care.
3. **HEALTH PROMOTION AND DISEASE PREVENTION:** Health promotion and disease prevention requires an understanding and application of epidemiological principles regarding the nature and identification of health issues in diverse populations and recognizes the impact of biological, chemical, behavioral, structural, psychosocial and environmental factors on general health.
4. **COMMUNICATION AND RECORD KEEPING:** Effective communication includes oral, written and nonverbal skills with appropriate sensitivity, clarity and control for a wide range of healthcare related activities, to include patient care, professional communication, health education, and record keeping and reporting.
5. **PROFESSIONAL ETHICS AND JURISPRUDENCE:** Professionals comply with the law and exhibit ethical behavior.
6. **INFORMATION AND TECHNOLOGY LITERACY:** Information literacy is a set of abilities, including the use of technology, to locate, evaluate and integrate research and other types of evidence to manage patient care.
7. **CHIROPRACTIC ADJUSTMENT/MANIPULATION:** Doctors of chiropractic employ the adjustment/manipulation to address joint and neurophysiologic dysfunction. The adjustment/manipulation is a precise procedure requiring the discrimination and identification of dysfunction, interpretation and application of clinical knowledge; and, the use of cognitive and psychomotor skills.
8. **INTERPROFESSIONAL EDUCATION:** Students have the knowledge, skills and values necessary to function as part of an inter-professional team to provide patient-centered collaborative care. Inter-professional teamwork may be demonstrated in didactic, clinical or simulated learning environments.
9. **BUSINESS:** Assessing personal skills and attributes, developing leadership skills, leveraging talents and strengths that provide an achievable expectation for graduate success. Adopting a systems-based approach to business operations. Networking with practitioners in associated fields with chiropractic, alternative medicine and allopathic medicine. Experiencing and acquiring the hard business skills required to open and operate an on-going business concern. Participating in practical, real time events that promote business building and quantifiable marketing research outcomes
10. **PHILOSOPHY:** Demonstrates an ability to incorporate a philosophically based Chiropractic paradigm in approach to patient care. Demonstrates an understanding of both traditional and contemporary Chiropractic philosophic concepts and principles. Demonstrates an understanding of the concepts of philosophy, science, and art in chiropractic principles and their importance to chiropractic practice.