

SYLLABUS

- Name of Course:** Cardiovascular/Pulmonary Diagnosis (DIAG-412)
- Length of Course:** 3.0 units, 44 hours (4 hours lecture/week)
- Course Description:** This course is designed to expand the student's understanding of the cardiovascular and pulmonary pathophysiology, and emphasizes their clinical presentations. Standard diagnostic, chiropractic, and allopathic approaches are studied. Radiologic evaluation of the respiratory and cardiovascular systems are studied and correlated with other significant clinical data. The student will be enabled to recognize conditions outside the scope of chiropractic for referral to other health care practitioners.
- Prerequisites:** DIAG-226, DIAG-236, ACS-345
- Course Offered By:** Clinical Sciences Department
- Required Texts:** None
- Recommended Texts:** None
- Reference Texts:** Principles of Chest Roentgenology, Felson, et al, 2nd ed. 1999
DeGowin's Diagnostic Examination, DeGowin & DeGowin 9th ed. 2009
Pocket Guide to Diagnostic Tests, Diane Nicole, Stephen McFee, 5th ed.
- Materials:** NONE
- Method of Instruction:** Lecture, Reading assignments, Handouts, Discussion, Case Histories, Written assignments, Quizzes.
- Evaluation** **2 mid terms and a final**
 In class case studies (4-6)
 Other in class assignments
- | | |
|----------------------------|-----------|
| A (4.0) Superior work | 90-100% |
| B (3.0) Above Average work | 80-89% |
| C (2.0) Average work | 70-79% |
| F (0.0) Failure | Below 70% |

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**)

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 Goal:

The goal of this course is to expand the student's understanding of cardiovascular and pulmonary pathophysiologies, their clinical presentation and diagnosis. The student will be enabled to recognize conditions outside the scope of chiropractic for referral to other health care practitioners.

Course Objectives:

Week 1

- * review syllabus
- * provide an overview of the course
- * review definitions (hand out)
- * begin cardiopulmonary Signs and symptoms
- * Begin heart failure classifications

Week 2

- * Continue with cardiovascular signs and symptoms
- * Continue heart failure and myocardio infarction

Week 3

- * discuss physical exam and relevant findings,
- * discuss the assessment of CV function adult/geriatric/pediatric
- * discuss risk factors and drug treatments for CV pathologies
- * Review for Mid term one

Week 4 Mid term one

Week 5 Cardiovascular examination including video and demonstrations

Week 6 Peripheral vascular pathologies

Week 7 *Midterm 1*

- * review the pulmonary system
- * review evaluation of pulmonary system function

Week 8 Discuss pulmonary pathologies and their diagnosis

Week 9 Discuss pulmonary pathologies and their diagnosis

Week 10 Discuss pulmonary pathologies and their diagnosis

Week 11 *FINAL*

Student Learning Objectives:

1. The student will be able to discuss the pathophysiology and clinical picture of common and important cardiopulmonary disorders. (1,2,6,10)

2. The student will be able to discuss and demonstrate physical examination procedures for the cardiopulmonary system. (1,3,5,6,8,10)
3. The student will be able to discuss the basic radiologic picture of common and important cardiopulmonary disorders. (1,5,6)
4. The student will be able to discuss the advanced medical diagnostic procedures applied to these systems. A study guide will be made available to assist the student in meeting course objectives for this class. (1,5,10)

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.