

SYLLABUS

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| Name of Course: | Systemic & Histology Anatomy Lecture ANAT-110/610(lab) |
| Length of Course: | 3.5 units, 55 hrs (5 hrs lecture /week) lec; 1 unit, 20 hrs lab |
| Course Description: | An introduction to the functional morphology and microanatomy of the human body. Emphasis is given to enhancement of the student's working vocabulary as it relates to human structure. A survey of human systems is given. The microanatomy is described at the tissue level of organization. Correlation of structure and function of epithelial connective, muscular, and nervous tissues is emphasized. |
| Prerequisites: | None |
| Required Text: | Marieb EN. <i>Human Anatomy and Physiology</i> . 8 th ed. 2010 Hansen, J. <i>Netter's Anatomy Coloring Book</i> 2nd ed. 2014 |
| Recommended Text: | Kapit W. <i>The Anatomy Coloring Book</i> . 3 rd ed. 2002 |
| Reference Texts: | Standring S. <i>Gray's Anatomy</i> . 40 th ed. 2008 |
| Materials: | Handouts |
| Method of Instruction: | Oral presentation and overhead and slide projections. |
| Evaluation/Grading Criteria: | There will be three lecture exams (2 midterms, 1 final) given during the quarter. The final exam will be cumulative in nature. Each test will be made up of objective questions (matching, true/false, multiple choice, short answer, fill-in and labels on drawings). The final exam will constitute one half of the course grade. Final grades will be determined according to the following scale: A – 4.0 Superior Work 90-100% B – 3.0 Above Average work 80-89% C – 2.0 Average work 70-79% F 0 – 69% |

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.00007**)

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.00006**)

Attendance: Please refer to Attendance Policy (**Policy ID: OAA.00002**)

Conduct and Responsibilities: Please refer to the Personal Conduct, Responsibility and Academic Responsibility Policy (**Policy ID: OAA.00003**)

Make-up Exams: Please refer to Make-up Assessment Policy (**Policy ID: OAA.00001**)

Request for Special Testing: Please refer to Request for Special Testing (**Policy ID: OAA.00004**)

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 Deans Office. Contact info: Lpino@lifewest.edu or 510-780-4500 ext. 2061. Please refer to Service for Students with Disabilities Policy (**Policy ID: OAA.00005**)

Electronic Course Management:

Canvas is LWCC'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.00009**)

Course Goals: This is an introduction to the organization of the human body with an emphasis on the basic tissue types of the body: epithelial, connective, muscular and nervous tissue. The course will include a survey of the organ systems and an examination of the histology of those organs.

Course Objectives:

Week 1 Introduction; Cell Structure; Epithelial Tissue

Week 2 Connective Tissue, Blood

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| Week 3 | Muscle Tissue and Nervous Tissue |
| Week 4 | Integumentary System |
| Week 5 | Cardiovascular System |
| Week 6 | Lymphatic System |
| Week 7 | Respiratory System |
| Week 8 | Digestive System |
| Week 9 | Urinary System |
| Week 10 | Reproductive System |
| Week 11 | Final Exam |

Student Learning Outcomes

The student should be able to:

General Anatomy

- define the body cavities and their limits, membranes of the body, and organ content of the cavities.
- list the major body systems and identify the organs within each system
- identify major organ structures as well as their histology.
- (PLO:1)

Histology

- explain the structure of a sarcomere, tendon, and ligament
- describe the structure of cardiac and smooth muscle.
- identify the structure and function of neurons and neuroglia in CNS
- understand the structure of nerves and support tissues in PNS
- (PLO:1)

Integumentary System

- recognize integumentary functions, epidermal, and dermal layers, types and structure of glands
- (PLO:1,3)

Cardiovascular System

- recognize the structure of the cardiovascular system; arterial structures; venous structures; basic
- identify the anatomy of the heart, including chambers, valves and membranes;
- trace the circulation of blood through the heart and body;
- identify the major lymph node locations;
- (PLO:1,3)

Respiratory System

- describe the location and basic anatomy of nasal cavity, pharynx, larynx, trachea, lungs
- identify the bronchopulmonary segments; structure and function of mucous membranes and alveolar sac
- (PLO:1,3)

Digestive System

- describe the location of mesenteries; differences of gut tube; basic anatomy of liver, pancreas, gallbladder and salivary glands;
- identify the basic histology of the gut tube in cross section and regional differences in the tube;
- describe the microscopic structure of the liver lobule
- (PLO:1,3)

Urinary System

- describe basic anatomy and histology of kidney, ureter, bladder and urethra;
- describe the structure and basic functions of the nephron.
- (PLO:1,3)

Reproductive System

- identify the basic anatomy and histology of the major organs of male and female reproductive tracts;
- describe interactions between endocrine and reproductive organs.
- (PLO:1)

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.