SYLLABUS

Name of Course: Embryology ANAT 125

Length of Course: Three hours, 3 Units

Course Description: This course is designed to give the student an understanding of fetal and embryological life with an emphasis on early fetal development.

Prerequisites: PHYS-122, ANAT-126, CHEM-121

Course Offered by: Basic Science Department

Required Text: Before We Are Born, Keith Moore

Recommended Text: None

Reference Texts: None

Materials: Multicolored pen is recommended for in class illustrations.

Method of Instruction: Instruction will be provided in the form of in class lecture/discussion, overhead projectors, and videos.

Evaluation/Grading Criteria:

There will be two 100 point exams and a 100 pt final exam.
Questions will include multiple choice, fill in, and matching.
Grades will be assigned according to the following scale: [out of 300 pts]

A = 4.0	90-100%	C = 2.0	70-79%
B = 3.0	80-89%	F = 0.0	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.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)**

Extra credit: None

COURSE OBJECTIVES:

The student will be able to gain knowledge of the basis of embryology as it relates to the early weeks of development through the formation of body systems. Different pathologies will also be discusses as they relate to the developmental processes of the body.

Course Objectives:

Week 1 To discuss terminology as it relates to the basic fundamentals of embryology.

Week 2 To discuss introduction to reproductive systems of both the male and female including anatomical structures and physiology.

Week 3 To discuss the developmental process up through week four with special attention given to the primordial structures that give rise to different body systems.

Week 4 Continue with discussion of the first four weeks, Exam 1 is given

Week 5 Begin discussion of the cardiovascular system and respiratory system. Discuss common anomalies as well as different pathologies that may occur.

Week 6	Continue discussion of cardiovascular and respiratory systems.
Week 7	Begin discussion of the digestive system from primordial gut tube through full function of the system.
Week 8	Continue discussion of the digestive system including pathologic conditions that may occur. Exam 2 is given.
Week 9	To discuss the formation of the urinary and reproductive systems including formation of the kidneys, gonads, and external genitalia. Discuss the homologue tissues of the male and female.
Week 10	To discuss the formation of the nervous system including the formation of the brain, spinal cord, and spinal nerves. Discuss pathologies that are common to the region. Begin discussion of the musculoskeletal system.
Week 11	Finish discussion of the musculoskeletal system. Final exam is given.

Learning Outcomes: Embryology ANAT 125

Student Learning Outcomes (SLO): At the completion of the ANAT 125 course, a student should be able to:

1. The student should be able to comprehend the early stages of embryologic development as well as terminology dealing with the subject. [PLO: 4, 8, 10]
2. The student should be able to comprehend the developmental processes for the different body systems and their relationship to each other and the environment. [PLO: 3, 4, 8, 10]
3. The student should be able comprehend different pathologies as they relate to the developmental process of the body and their cause. [PLO: 3, 6, 8, 10]
4. The student should have knowledge of possible prevention of certain developmental conditions and diseases, as well as possible treatments from a medical, chiropractic, and natural viewpoint. [PLO: 1, 2, 3, 6]

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.