COURSE PLAN

BASIC INFORMATION

College

College : College of Medicine

Department : Department of Basic Sciences

Course

Course Title : Anatomy and Embryology

Course Code : 31502110

Credit Hours : 3 Hours (2 lectures & 1 lab)

Prerequisite : None

Instructor

Name : Prof. Abdul-Ameer Al-Nuaimi and Dr. Ezidin Kaddumi (Course coordinator).

Office No. :

Tel (Ext) :

E-mail : abdulameerh@Yahoo.com, Kaddumi@bau.edu.jo

Office Hours : Sunday, Tuesday, Thursday 10-1

Class Times

Building	Day	Start Time	End Time	Room No.
Lectures Hall Complex	Sunday &Thursday	12:00 13:00	13:00 14:00	
Faculty of Science	Sunday - Thursday	8:00	11:00	Anatomy lab.

Text Books

1. Principles of Human Anatomy. By G.J. Tortora, Latest edition.
2. Clinical Anatomy for Medical Students. By R.S. Snell, Latest edition.
3- Grants Atlas of human anatomy.
4. Before we are born. By K.L. Moore and T.V.N. Persaud, Latest edition.

SECOND: PROFESSIONAL INFORMATION

COURSE DESCRIPTION

This course covers introduction to gross anatomy of the body parts (upper & lower limbs, thorax, abdomen, head & neck, and anatomy of the nervous system) including; terms, regions, muscles, blood vessels, and nerves. This course also covers general embryology including the development of embryo starting from the zygote, the fetal membranes, placenta and congenital anomaly.

COURSE OBJECTIVES

Upon completion of this course students should be able to:

- Describe and demonstrate the basic structure of different systems of the human body.
- Describe the structural organisation and functions of each system of the human body and relate the structures in each system with the general functions.
- Describe the general developmental processes of the embryo from the fertilization through the embryonic period.

COURSE LEARNING OUTCOMES

- Comprehend the anatomical terms, use them correctly, and comprehend the topographic and general anatomy of the regions of abdomen, pelvis, perineum, thorax, extremities and head and neck
- Classify different types of bones and distinguish their general features, structure and functions
- Identify the important joints of the body, their movements and the muscles involved in producing these movements
- Recognize muscle groups, their actions and nerve supply
- Outline the functional organization of the nervous system
- Identify characteristics and components of the central and peripheral nervous system
- Identify the structures and components of the cardiovascular system
- Outline the anatomy of respiratory system
- Identify the anatomical structures in the digestive system
- Recognize the anatomy of the urogenital system
- Describe Spermatogenesis and oogenesis
- Describe the fertilization, implantation, formation of placenta and fetal membranes.
- Describe the embryological processes in the embryonic period.
- Define teratogens and discuss the effect of teratogens on the development of the embryo and fetus.

COURSE SYLLABUS

Week	Title of Lectures	Topics to be discussed	LAB
1	Introduction to The Course The Human Body Introduction Gametogenesis	Define human anatomy with its subdivisions. Define structural levels of organization. Medical terminology. Anatomical position & planes. Directional terms used in studying the human body. Definition of gametes; somatic and sex cells. Male and female gametes. Principles of reproduction. Spermatogenesis and oogenesis.	
2	Axial skeleton I. Axial skeleton II.	Types of bones. Major bony landmarks. Classification of bones. Naming of individual bones and their major characteristics. The skull, overview. Different approaches to the study of the skull. Cranial and facial bones with their main features. Major foramina in cranial fossae. Vertebral column. Sternum and ribs.	Lab Introduction and Instructions
3	Appendicular skeleton Articulation (Joints)	Shoulder girdle and upper limb bones; main features of each bone. Pelvic girdle and lower limb bones; main features of each bone. Definition and structure of the joints Structures related to the joints Different types of the joints. The role of the joints in body movements Stability of the joints	Skeletal System (axial skeleton)
4	Muscular System I. Muscular System II.	Definition of muscles and movement. Major muscles of the head and neck regions: facial expression, mastication, and cervical muscles moving the skull. Muscles of the trunk, shoulder, pectoral region, thoracic wall, abdominal wall and gluteal region.	Skeletal System (appendicular skeleton)

5	Muscular System III. Cardiovascular system I.	Muscles of the arm and forearm. Muscles of the thigh and leg The heart and pericardium. The great vessels associated with the heart. Systemic and pulmonary circulation.	Muscular System
6	Cardiovascular system II. Respiratory System I.	Blood vessels (Bvs) of the head and neck. Bvs of the thoracic and abdominal aorta. Bvs of the upper limb. Bvs of the lower limb. Components of the respiratory system Anatomy of the nose Anatomy of larynx and pharynx	Muscular System
7	Respiratory System II. Digestive System I.	Anatomy of trachea Anatomy of lungs (shapes, lobes and fissures, hilum, surface anatomy) Pleura Diaphragm Divisions of the GIT. Oral cavity, salivary gland and pharynx. Esophagus and stomach.	Cardiovascular System
8	**Midterm Exam**		
9	Digestive System II. Urinary System	The intestinal tract. Rectum and anal canal. Liver and pancreas. Gross anatomy of the kidney. Ureter. Urinary bladder. Urethra	Respiratory System
10	Male Reproductive System Female reproductive System	Components of male genital system (testis, scrotum, spermatic cord, prostate and seminal vesicle) Components of female genital system (ovary, uterine tube, uterus and vagina)	Digestive System & Urinary System
11	Nervous System I.	Overview of the CNS &PNS. Topography of the brain and spinal cord. Meninges.	Male and Female Reproductive System

	Nervous System II.	Cranial nerves. Spinal nerves. Plexuses; summary of brachial and lumbosacral	
12	First & second week of development Third week of development		Nervous System
13	Fetal membranes & placenta Birth defects		
14	Revision		
15 & 16	Final Theory and Practical Examination Final Exam will be announced by the registrar office		

COURSE LEARNING RESOURCES

- Lectures
- Practical Sessions
- Group Discussion
- Reviews

ONLINE RESOURCES

http://www.anatomyatlases.org/
http://msjensen.cbs.umn.edu/webanatomy/self/

ASSESSMANT TOOLS

ASSESSMENT TOOLS	**%**
Mid Exam (Theory)	40
Practical	25
Final Exam	35
TOTAL MARKS	100

THIRD: COURSE RULES

ATTENDANCE RULES

Attendance and participation are extremely important, and the usual University & college rules will apply. Attendance will be recorded for each session. Absence of 15% (up to 20% for student having some excuses that are approved by the dean) will result in that the student will not be permitted to attend the final examination and he/she will be granted zero mark in that exam.

GRADING SYSTEM
Example:

A	**4**	**C**	**2**
A-	**3.75**	**C-**	**1.75**
B+	**3.5**	**D+**	**1.5**
B	**3**	**D**	**1**
B-	**2.75**	**D-**	**0.75**
C+	**2.5**	**F**	**0.5**

REMARKS

Exam remarks:
- Exam time depends on number of questions (~ I minute/question)
- Number of questions depends on the covered material

Attendance remarks:
- Attendance will be taken at the first ten minutes of the session (lecture or lab).
- Attendance for lectures will be taken according to seating numbers.
- Attendance for labs will be taken according to the group list.

COURSE COORDINATOR

Course Coordinator: Dr Ezidin Kaddumi	Department Head: Dr. Nabil Amer
Signature:	Signature:
Date:	Date: