



EDO UNIVERSITY IYAMHO

Anatomy Department

ANA 211 Gross Anatomy, Microscopic Anatomy and General Embryology

Instructor: *Dr. Odetola Amos A.*, email: odetola.amos@edouniversity.edu.ng

Lectures: Friday, 10 am- 12pm, LT1, phone: (+234) 8032072958

Office hours: Thursday, 1.30 to 2.30 PM, Office:

General overview of lecture: The course introduces some fundamental concepts in human anatomy including general and systemic embryology, microscopic anatomy and gross anatomy with associated clinical correlates.

Prerequisite: The students are expected to have a strong background in the basic biology, particularly about the reproductive system. Some knowledge of genetics will be of great importance in understanding some concepts of teratology.

Learning outcomes: At the completion of this lecture, students should be able to:

- “ Describe the Gross anatomy of the gastrointestinal tract, the kidney and spleen
- “ Explain the basic microscopic structures of the GIT and able to enumerate the various cells found in each layer
- “ describe the histoarchitecture of the testes, epididymis, seminar vesicle and prostate
- “ give account of testicular descent and state the underlying factors

Assignments: students are going to have three (2) individual and one (1) group assignments throughout the course in addition to a Mid-Term Test and a Final Exam. Assignments are organized and structured as preparation for the midterm and final exam, and are meant to be a studying material for both exams.

Grading: We will assign 10% of this class grade to homeworks, 10% for the programming projects, 10% for the mid-term test and 70% for the final exam. The Final exam is comprehensive.

Textbooks: The recommended textbooks for this class are as stated:

Title: Clinically Oriented Anatomy, 6th ed.

Authors: Keith L.M., Arthur F.D., and Anne M.R.A.

Publisher: Wolters Kluwer Health

ISBN: 978-07817-7525-0

Title: Anatomy at a Glance
Authors: Omar F., and David M.
Publisher: Blackwell Science
ISBN 0-632-05934-6

Title: Gray's Anatomy: The Anatomical Basis of Clinical Practice
Author: Susan Standring
Publisher: Elsevier Churchill Livingstone
ISBN: 0 443 07169 1

Title: Wheater's Functional Histology, 6th Ed.
Authors: Barbara Young; Phillip Woodford; Geraldine O'Dowd
Publisher: Elsevier Churchill Livingstone
ISBN: 978-0-7020-4747-3

Title: Cell Biology and Histology, 6th Ed.
Authors: Leslie P.G., James L.H., and Judy M.S.
Publisher: Wolters Kluwer Health
ISBN 978-1-60831-321-1

Title: Inderbir Singh's Textbook of Human Histology, 7th Ed.
Authors: Neelam V., and Sabita M.
Publisher: The Health Sciences Publishers
ISBN 978-93-5152-322-2

Title: Junqueira's Basic Histology, 14th Ed.
Author: Anthony L.M.
Publisher: MC Graw Hill Education
ISBN: 978-0-07-184268-6

Title: Langman's Medical Embryology
Author: T.W. Sadler
Publisher: Wolters Kluwer Health
ISBN: 978-1-4511-9164-6

Title: Larsen's Human Embryology
Authors: Gary C.S., Steven B.B., Philip R.B., and Philippa H.F.

Publisher: Churchill Livingstone
ISBN: 978-1-4557-0684-6

Title: The Developing Human, Clinically Oriented Embryology 8th Ed.
Author: K.L. Moore and T.V.N.Persaud
Publisher: Saunders

Courseware: ANA 211Gross Anatomy, Microscopic Anatomy and General Embryology

The following documents outline the courseware for the course ANA 213 General Embryology. Much of this material is taken from recommended text books.

1:Cardiovascular System

- establishment and patterning of the primary heart field
- formation and position of the Heart tube
- formation of the cardiac loop
- molecular regulation of the cardiac development
- Development of sinus venosus
- Formation of the cardiac septa
- Vascular development

2:Respiratory System:

- Formation of the lung buds
- Larynx
- Trachea, Bronchi and Lungs
- Maturation of the Lungs

3:Urogenital System

- Development of the Gonads
- Descend of the Gonads
- Formation of reproductive ducts

4: Second Week of Development: Bilaminar Germ Disc

- Differentiation of trophoblast into cytotrophoblast and syncytiotrophoblast
- Development of foetal membranes
- Formation of two cavities: Amniotic and Chorionic cavities
- Formation of somatic and splanchnic mesoderm

5: Third Week of Development

- Gastrulation: formation of embryonic mesoderm and endoderm
- Formation of the Notochord
- Establishment of the body axes
- Growth of the embryonic disc

6: 3rd to 8th Week of Development

- Derivatives of Ectodermal Germ Layer
- Derivatives of Mesodermal Germ Layer
- Derivatives of Endodermal Germ Layer

- Patterning of the Anteroposterior Axis

7: Histology of CVS

- The Heart
- Tissue of the Vascular Wall
- The Arterial System
- The Venous System

8: Histology of the Respiratory System

- Nasal Cavities
- Pharynx
- Larynx
- Trachea
- Bronchial Tree and Lung
- Air Blood Barrier

9: Histology of Gastrointestinal Tract

- General Structure of the GIT
- Oesophagus
- Stomach
- Small Intestine
- Large Intestine

10: Gross Anatomy of the Gastrointestinal Tract

- Oesophagus
- Stomach
- Small Intestine
- Large Intestine

11: Gross Anatomy of the Kidney

12: Gross Anatomy of the Spleen



Clinically Oriented Anatomy provides first-year medical students with the clinically oriented Gray's Anatomy: The Anatomical Basis of Clinical Practice, 41e. 2,251 Pages • 2015 • 226.82 MB • 40,453 Downloads • New! Clinical Anatomy by Regions pairs expert perspectives with a user-friendly approach to deliver a proven Clinical Anatomy and Physiology for Veterinary Technicians. 658 Pages • 2015 • 45.32 MB • 10,454 Downloads. KEY FEATURES Clinically Oriented Anatomy has been widely acclaimed for the relevance of its clinical correlations. As in previous editions, the seventh edition places clinical emphasis on anatomy that is important in physical diagnosis for primary care, interpretation of diagnostic imaging, and understanding the anatomical basis of emergency medicine and general surgery. Clinically Oriented Anatomy provides more tables than any other anatomy textbook. This article contains Clinically Oriented Anatomy Eighth Edition PDF for free download. This book has been authored by Arthur F Dalley II, Anne M R Agur Keith L Moore. Download clinically oriented anatomy moore pdf. Bild Tattoos, Body Art Tattoos, Cool Tattoos, Tattoos, Awesome Tattoos, Funny Tattoos, Ems Tattoos, Insane Tattoos, Incredible Tattoos. Np School Nursing School Notes Critical Care Nursing Cardiac Nursing Medical Anatomy Emergency Medicine Nursing Tips Medical Science Medical Information.