



**UNIVERSITY OF NAIROBI**  
**DEPARTMENT OF HUMAN ANATOMY**  
**LEVEL I B.PHARM/BSc NURSING TEACHING SCHEDULE 2018/2019**

<b>INTRODUCTORY LECTURES (WEEKS 1 &amp; 2)</b>					
<b>Week</b>	<b>Day</b>	<b>Time</b>	<b>Task and group</b>	<b>Venue</b>	<b>Facilitator</b>
<b>WEEK 1</b>	Thursday	8:00am – 10:00am	Introduction to microscopic anatomy and online modules	MH-2	Dr. Olabu
	1 <sup>st</sup> Nov	10:00am – 12:00pm	Introduction to Human Anatomy: Divisions and Scope Posture of man, terms of position & movement	MH-2	Dr. Olabu
	Friday	8:00am – 9:30am	Introduction to the department of Human Anatomy	MH-2	All staff
	2 <sup>nd</sup> Nov	10:00am – 12:00pm	Introduction to Embryology: General overview and terminologies	Histology Lab	Dr. Olabu
	<b>Week 1 Study objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>1. Be familiar with basic terms used in gross and developmental anatomy</li> <li>2. Appreciate the fundamental components of the body systems as introduced to you</li> <li>3. State the main functions of each of the organ systems</li> <li>4. Successfully enroll for the three online histology modules in the multimedia portal</li> <li>5. Learn how to use the online portal for histology modules</li> </ol>				
<b>WEEK 2</b>	Thursday	8:00am – 10:00am	Gametogenesis & fertilization	Nursing lecture theatre	Dr. Olabu
	8 <sup>th</sup> Nov	10:00am – 12:00pm	Cell cycle and cell division	Nursing lecture theatre	Dr. Kaisha
	Friday	8:00am – 10:00am	Basic techniques in microscopic anatomy	Histology Lab	Sarah and team
	9 <sup>th</sup> Nov	10:00am – 12:00pm	Practical: Use of Microscopes	Histology Lab	Sarah and team
	<b>Week 2 Study objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>1. Be familiar with basic terms used in gross and developmental anatomy</li> <li>2. Be able to describe the posture of man</li> <li>3. Demonstrate the various movements that occur in joints</li> <li>4. Be able to safely use a light microscope and familiarize yourself with other types of microscopy</li> <li>5. Understand the phases of the cell cycle</li> <li>6. Be able to apply genetics to the science of cell cycle</li> <li>7. Describe the structure &amp; functions of the cell membrane &amp; cellular organelles</li> <li>8. Familiarize with the cytoskeleton and its clinical importance</li> <li>9. Describe the process of mitosis and meiosis &amp; relate this to gametogenesis</li> <li>10. Be clear on the process of fertilization and its results</li> <li>11. Be able to relate the process of fertilization to clinical practice</li> <li>12. Be familiar with basic techniques of tissue preparation for microscopy</li> </ol>				



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**MUSCULOSKELETAL SYSTEM; LIMBS; BASIC HISTOLOGY & BASIC EMBRYOLOGY (WEEKS 3-9)**

Dates	Day	Time	Task and group	Venue	Facilitator
<b>WEEK 3</b>	Thursday	8:00am – 10:00am	Cytology I: The cell structure and functions of cell organelles	Histology Lab	Dr. Odula
	15 <sup>th</sup> Nov	10:00am – 12:00pm	Pre-embryonic period: 1st and 2nd weeks of development & twinning	Histology Lab	Dr. Mwachaka
	Friday	8:00am – 10:00am	Cytology II: Cell functional specialization	Histology Lab	Dr. Ongeti
	16 <sup>th</sup> Nov	10:00am – 12:00pm	Female reproductive cycles	Histology Lab	Dr. Pulei
	<b>Week 3 Study objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>1. Cell functional specialization and its relevance in histological tissue identification</li> <li>2. Outline various phases of the female reproductive cycle and state the hormonal basis</li> <li>3. Outline the events that occur during the 1<sup>st</sup> week of development</li> <li>4. Outline the events that occur during the 2<sup>nd</sup> week of development and highlight on the “week of twos”</li> <li>5. Familiarize with the term cleavage, compaction, zygote, morula, blastocyst, embryoblast, trophoblast, epiblast and hypoblast</li> <li>6. Discuss various mechanisms of twinning and disorders of multiple gestations</li> </ol>				
<b>WEEK 4</b>	Thursday	8:00am – 10:00am	Introduction to skeleton system and terms used to describe bone	Nursing lecture theatre	Dr. Gikenye
	22 <sup>nd</sup> Nov	10:00am – 12:00pm	Gross anatomy laboratory practical: Bones of the axial and the appendicular skeleton	Gross Anatomy Lab	BSc Anatomy MSc Anatomy
	Friday	8:00am – 10:00am	Practical: Organization of lining epithelia	Histology Lab	Dr. Kaisha
	23 <sup>rd</sup> Nov	10:00am – 12:00pm	3 <sup>rd</sup> week of development: Gastrulation, derivatives of germ layers and neurulation	Histology Lab	Prof. Gichangi
	<b>Week 4 Study objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>1. Appreciate the fundamental components of the body systems as introduced to you</li> <li>2. Outline the classification of the skeletal system</li> <li>3. Name the various bone of the axial skeleton</li> <li>4. Name the bones of the appendicular skeleton</li> <li>5. Familiarize with terms used when describing parts of bones</li> <li>6. Describe the characteristics of epithelial tissue</li> <li>7. Give various epithelial types and state the distribution of each</li> <li>8. Familiarize with the concept of only four basic tissues</li> <li>9. Describe the process of gastrulation &amp; neurulation</li> <li>10. Differentiate between primary and secondary neurulation and name the various neural tube disorders and state their embryological basis.</li> <li>11. State the derivatives of the three germ layers and disorders of gastrulation</li> </ol>				



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Week	Day	Time	Task and group	Venue	Facilitator
<b>WEEK 5</b>	Thursday	8:00am – 10:00am	Introduction to muscular and articular systems	Nursing lecture theatre	Dr. Munguti
	29 <sup>th</sup> Nov	10:00am – 12:00pm	Overview of bones and joints of the lower limb	Nursing lecture theatre	Dr. Awori
	Friday	8:00am – 10:00am	Practical: Fibrous connective tissue and & adipose tissue	Histology Lab	Dr. Odula
	30 <sup>th</sup> Nov	10:00am – 12:00pm	Fetal membranes I: Amnion, Umbilical vesicle and Allantois	Histology Lab	Dr. Pulei
	<b>Week 5 Study objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>Outline the classification of joints</li> <li>Give examples of fibrous and cartilaginous joints</li> <li>State the characteristics and varieties of synovial joints</li> <li>Familiarize with components and functions of the muscular system</li> <li>Describe modes of muscle attachment to bone</li> <li>Highlight various concepts used to name muscle</li> <li>Outline the classification of connective tissue</li> <li>State the varieties of connective tissue proper</li> <li>Name the resident and migrant cell types of fibrous connective tissues and indicate functions of each</li> <li>State the types of connective tissue fibers and indicate distribution and role of each</li> <li>List the components of the foetal membranes</li> <li>State the formation, functions, fate and clinical correlates of the amnion, umbilical vesicle and the allantois</li> </ol>				
<b>WEEK 6</b>	Thursday	8:00am – 10:00am	Overview of lower limb muscle groups and their actions	Nursing lecture theatre	Dr. Kigera
	6 <sup>th</sup> Dec	10:00am – 12:00am	Overview of lower limb neurovasculature and anatomical spaces	Nursing lecture theatre	Dr. Ongeti
	Friday	8:00am – 10:00am	Practical: Organization of bone tissue	Histology Lab	Dr. Mandela
	7 <sup>th</sup> Dec	10:00am – 12:00pm	Foetal membranes II: Chorion and the Placenta	Histology Lab	Prof. Gichangi
	<b>Week 6 Study objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>Outline the main muscle groups of the lower limb and state the innervation and actions of each</li> <li>State the boundaries, contents and clinical relevance of the femoral triangle and popliteal fossa</li> <li>Describe the lower limb arterial tree</li> <li>Outline the factors that promote venous return from the lower limb</li> <li>Describe the lamellae organization of the bone matrix</li> <li>Name the cell types of bone tissue and indicate the functions of each</li> <li>State the layers and parts and functions of the chorion and placenta</li> <li>Name common structural placental anomalies and state their clinical significance</li> <li>Describe the formation, functions and disorders of the placenta</li> </ol>				



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Week	Day	Time	Task and group	Venue	Facilitator
<b>WEEK 7</b>	Thursday 13 <sup>th</sup> Dec	8:00am – 9:00am	Gross anatomy laboratory practical: The lower limb – bones, joints, muscle groups, spaces and neurovasculature	Gross Anatomy Lab	BSc Anatomy MSc Anatomy
		9:00am – 11:00am	Fetal period of development and principles of teratology	Nursing lecture theatre	Dr. Pulei
	Friday 14 <sup>th</sup> Dec	8:00am – 10:00am	Practical: Organization cartilage tissue	Histology Lab	Dr. Munguti
		10:00am – 12:00pm	Progress Assessment Test 1	Histology Lab	Dr. Olabu
	<b>Week 7 Study objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>1. Appreciate various bones of the axial and appendicular skeleton, and demonstrate how they are positioned in the body</li> <li>2. Appreciate in the lab the various types of joints and muscles</li> <li>3. State the properties, types, functions and distribution of cartilage tissue spectra</li> <li>4. State the invasive and non-invasive methods of fetal monitoring</li> <li>5. Outline common environmental causes of birth defects</li> </ol>				
<b>WEEK 8</b>	Thursday 10 <sup>th</sup> Jan	8:00am – 10:00am	Bones, joints and muscle groups of the upper limb	Nursing lecture theatre	Dr. Awori
		10:00am – 12:00pm	Upper limb neurovasculature and anatomical spaces	Nursing lecture theatre	Dr. Ndung'u
	Friday 11 <sup>th</sup> Jan	8:00am – 10:00am	Practical: Organization of propulsion tissue	Histology Lab	Dr. Kaisha
		11:00am – 12:00pm	Development of limbs	Histology Lab	Dr. Obimbo
	<b>Week 8 Study objectives and Review questions:</b> <ol style="list-style-type: none"> <li>1. Outline the main muscle groups of the upper limb and state the innervation and actions of each</li> <li>2. State the boundaries, contents and clinical relevance of the axilla, cubital fossa and carpal tunnel</li> <li>3. Describe the upper limb arterial tree</li> <li>4. Outline the venous drainage of the upper limb and state its clinical relevance</li> <li>5. Name the types of muscle tissue and state the distribution of each</li> <li>6. Highlight of the structural and functional differences between skeletal, cardiac and smooth muscles</li> <li>7. Apart from muscle cells, name other cells with contractile properties and indicate the distribution and role of each</li> <li>8. State the histological and physiological properties of skeletal, cardiac and smooth muscles</li> <li>9. State and give embryological basis of common developmental disorders of bone, cartilage and skeletal muscle</li> <li>10. State the steps in the process of limb development and the basis for common congenital anomalies of the muscles &amp; limbs</li> </ol>				

Prepared by: .....

Dr. Beda Olabu

Approved by: .....

Dr. Pamela Mandela  
Ag. Chairman

Date:...../...../2019



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Week	Day	Time	Task and group	Venue	Facilitator
<b>WEEK 9</b>	Thursday 17 <sup>th</sup> Jan	8:00am – 10:00am	Gross anatomy laboratory practical: Upper limb – bones, joints, muscle groups, spaces and neurovasculature	Gross Anatomy Lab	MSc Anatomy
		10:00am – 12:00pm	Development of the skin and its appendages	Gross Anatomy Lab	Dr. Ndung'u
	Friday 18 <sup>th</sup> Jan	8:00am – 10:00am	Practical: Organization of skin and its appendages	Histology Lab	Dr. Butt
		10:00am – 12:00pm	Progress Assessment Test 2	Histology Lab	Dr. Olabu
	<b>Week 9 Study objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>1. Appreciate the segments, muscle groups, joints, nerves , vessels and spaces of the upper limb as demonstrated in the lab and also outlined previously</li> <li>2. Describe the layers of the skin</li> <li>3. Name the cell types of the epidermis and indicate the functions of each</li> <li>4. Describe the development &amp; histological organization of the skin and its appendages</li> <li>5. Name common congenital malformations of the skin indicate embryological basis of each</li> <li>6. Describe the development and congenital anomalies of the breast</li> <li>7. State common congenital anomalies of the breast</li> </ol>				
<b>WEEK 10</b> 24 <sup>th</sup> – 25 <sup>th</sup> January	Monday	<b>CONTINUOUS ASSESSMENT TEST 1</b> <b>(MID-SEMESTER I CAT)</b> <b>(MULTIPLE CHOICE QUESTIONS)</b>			All
	Tuesday				
	Wednesday				
	Thursday				
	Friday				



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**NEUROANATOMY (WEEKS 11-15)**

Week	Day	Time	Task and group	Venue	Facilitator
<b>WEEK 11</b>	Thursday	8:00am – 10:00am	Scalp, face and the skull	Nursing lecture theatre	Dr. Kamau
	31 <sup>st</sup> Jan	10:00am –12:00pm	Cranial cavity, foramina and the meninges	Nursing lecture theatre	Dr. Mandela
	Friday	8:00am – 10:00am	Practical: Organization of the Nervous tissue	Histology Lab	Dr. Ndung’u
	1 <sup>st</sup> Feb	10:00am –12:00pm	Review of Mid-Semester 1 CAT	Histology Lab	Dr. Olabu
	<b>Week 11 Study objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>Describe the layers, innervation, blood supply and clinical relevance of the scalp</li> <li>Name the components of the neurocranium and viscerocranium</li> <li>Be familiar with the clinical significance of pterion</li> <li>Outline the differences between the skull of a neonate and that of an adult</li> <li>State the contents of the anterior, middle and posterior cranial fossae</li> <li>Name major foramina of the skull and state the main contents of each</li> <li>Describe the meningeal layers and spaces</li> <li>Outline the classification of neurons according to anatomical structure, function and others</li> <li>Name the peripheral and central neuroglial cells and state the functions of each</li> <li>Familiarize with terms such as cortex, nucleus, ganglion, association fiber, projection fiber and commissural fiber</li> </ol>				
Week	Day	Time	Task and group	Venue	Facilitator
<b>WEEK 12</b>	Thursday	8:00am – 10:00am	The vertebral column	Nursing lecture theatre	Dr. Gikenye
	7 <sup>th</sup> Feb	12:00am –12:00pm	The spinal cord	Nursing lecture theatre	Dr. Awori
	Friday	8:00am – 10:00am	Practical: Organization of the spinal cord & peripheral nerve	Histology Lab	Dr. Mandela
	8 <sup>th</sup> Feb	12:00am –12:00pm	Neurulation and development of the spinal cord	Histology Lab	Dr. Obimbo
	<b>Week 12 Study Objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>Outline the components of the vertebral column</li> <li>Illustrate the parts of a typical vertebra</li> <li>State the functions and components of the intervertebral disc</li> <li>Describe the external and internal features of the spinal cord</li> <li>Outline the blood supply to the spinal cord</li> <li>Describe the development of the spinal cord and be familiar with the concept of primary and secondary neurulation</li> <li>Describe the structure of a sensory ganglion</li> <li>Outline common congenital malformations of the spinal cord and give embryological basis of each</li> <li>Outline the neural tube defects</li> </ol>				



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Week	Day	Time	Task and group	Venue	Facilitator
<b>WEEK 13</b>	Thursday 14 <sup>th</sup> Feb	8:00am – 10:00am	Cerebrum: Lobes, functional areas, blood supply	Nursing lecture theatre	Dr. Obimbo
		10:00am –12:00pm	Brainstem and cranial nerves	Nursing lecture theatre	Dr. Mwachaka
	Friday 15 <sup>th</sup> Feb	8:00am – 10:00am	Practical: Organization of the brainstem	Histology Lab	Dr. Munguti
		10:00am –12:00pm	Self-study		
	<b>Week 13 Study Objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>Describe the basic topography of the cerebrum</li> <li>State the main functional areas in each of the lobes of the cerebral cortex, and relate this with effects of injury</li> <li>Outline the formation and branches of the arterial circle of Willis</li> <li>Describe the territorial blood supply to the cerebral cortex</li> <li>Name the parts of the brainstem</li> <li>Describe the internal features of the midbrain, pons and medulla oblongata</li> <li>Name the cranial nerves in order and outline the distribution (functions) and effects of injury of each</li> <li>State the derivatives of the various brain vesicles and state its common malformations</li> </ol>				
<b>WEEK 14</b>	Thursday 21 <sup>st</sup> Feb	8:00am – 10:00am	Basal ganglia, Diencephalon and Cerebellum	Nursing lecture theatre	Dr. Butt
		10:00am –12:00pm	The limbic system and the ventricular system	Nursing lecture theatre	Dr. Gikenye
	Friday 22 <sup>nd</sup> Feb	8:00am – 10:00am	Practical: Organization of the cerebrum & the cerebellum	Histology Lab	Dr. Kigera
		10:00am –12:00pm	Development of the brain	Histology Lab	Prof. Gichangi
	<b>Week 14 Study objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>Name the components and functions of the diencephalon</li> <li>Outline the components and functions of the basal ganglia and relate this to common disorders</li> <li>State the components, functions and effects of injury to the limbic system</li> <li>Describe the formation, flow, absorption and disorders of the cerebrospinal fluid</li> <li>Describe the parts, connections, functions and effects of lesions of the cerebellum</li> <li>Describe the organization cerebral and cerebellar cortex</li> <li>Describe the histological organization of the cerebrum &amp; cerebellum including the layers &amp; cell types within</li> <li>Be able to state the derivatives of the various brain vesicles and state its common malformations</li> </ol>				



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Week	Day	Time	Task and group	Venue	Facilitator
<b>WEEK 15</b>	Thursday 28 <sup>th</sup> Feb	8:00am – 10:00am	Gross anatomy laboratory practical: Scalp, skull, meninges, vertebral column, brain and spinal cord	Gross Anatomy Lab	MSc Anatomy
		10:00am – 12:00pm	Ascending and descending tracts	Nursing lecture theatre	Dr. Odula
	Friday 1 <sup>st</sup> March	8:00am – 10:00am	Practical: Histological organization of receptors of general sensation	Histology Lab	Dr. Ongeti
	<b>Week 15 Study Objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>1. Appreciate the components of the axial skeleton and nervous system as demonstrated in the lab</li> <li>2. Name the main ascending tracts of the spinal cord and state the modality of each</li> <li>3. List the pyramidal and extrapyramidal motor pathways</li> <li>4. Using a diagram, illustrate the cross sectional anatomy of the spinal cord at cervical, upper thoracic, lower thoracic, lower lumbar and mid sacral segments</li> <li>5. Outline the classification of sensory receptors based on modality</li> <li>6. Give examples of cutaneous receptors and state the modality of each</li> <li>7. Name the proprioceptors and state the mechanism of each</li> <li>8. Name the receptors of special sensations</li> <li>9. Describe the structural organization and cell types of the retina, taste buds, olfactory epithelium and spiral organ of Corti</li> </ol>				
<b>HEAD &amp; NECK ANATOMY AND THE ENDOCRINE SYSTEM (WEEKS 16-21)</b>					
Week	Day	Time	Topic	Venue	Facilitator
<b>WEEK 16</b>	Thursday 7 <sup>th</sup> March	8:00am – 11:00am	Progress Assessment Test 3	Millennium Hall 2	Dr. Olabu
		11:00am – 12:00pm	Self-study		
	Friday 8 <sup>th</sup> March	8:00am – 10:00am	Practical: Histological organization of receptors of special sensation	Histology Lab	Dr. Mwachaka
		10:00am – 12:00pm	Head and Neck development I: Pharyngeal apparatus and their derivatives	Histology Lab	Dr. Kamau
	<b>Week 16 Study objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>1.</li> </ol>				





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Week	Day	Time	Task and group	Venue	Facilitator
WEEK 17 11 <sup>th</sup> - 15 <sup>th</sup> March	Monday		CONTINUOUS ASSESSMENT TEST 2 (END OF SEMESTER I CAT) (SPOT EXAM)		All
	Tuesday				
	Wednesday				
	Thursday				
	Friday				
<b>1 WEEK BREAK (18<sup>TH</sup> - 22<sup>ND</sup> MARCH)</b>					

Prepared by: .....  
Dr. Beda Olabu

Approved by: .....  
Dr. Pamela Mandela  
Ag. Chairman

Date:...../...../2019



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<b>ANATOMY OF THE HEAD &amp; NECK (WEEKS 19-22)</b>					
<b>Week</b>	<b>Day</b>	<b>Time</b>	<b>Task and group</b>	<b>Venue</b>	<b>Facilitator</b>
<b>WEEK 19</b>	Thursday	8:00am – 10:00am	Anatomy of the eye and the ear	Nursing lecture theatre	Dr. Ongeti
	28 <sup>th</sup> March	10:00am – 12:00pm	Anatomy of the eye and the ear	Nursing lecture theatre	Dr. Ongeti
	Friday	8:00am – 10:00am	Practical: Organization of the eyeball and its adnexa	Histology Lab	Dr. Munguti
	29 <sup>th</sup> March	10:00am – 12:00pm	Pharyngeal apparatus and their derivatives	Histology Lab	Dr. Olabu
	<b>Week 19 Study objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>1. Describe the sensory and motor innervation of the face</li> <li>2. State the components and derivatives of each of the pharyngeal arches</li> <li>3. Describe the innervation and actions of the extraocular muscles</li> <li>4. Describe the movements of the eyeball and indicate the muscles responsible for each movement</li> <li>5. Outline the visual pathway and highlight various visual defects that may occur due to focal lesions along this pathway</li> <li>6. State the components of the lacrimal apparatus</li> <li>7. Name the tunics of the eyeball and state the components of each, structural adaptations and role of each component</li> </ol>				
<b>Week</b>	<b>Day</b>	<b>Time</b>	<b>Task and group</b>	<b>Venue</b>	<b>Facilitator</b>
<b>WEEK 20</b>	Thursday	8:00am – 10:00am	Anatomy of the neck triangles	Nursing lecture theatre	Dr. Mandela
	4 <sup>th</sup> April	12:00am – 12:00pm	Anatomy of the neck triangles	Nursing lecture theatre	Dr. Mandela
	Friday	8:00am – 10:00am	Practical: Endocrine glands of Head and Neck	Histology Lab	Dr. Kaisha
	5 <sup>th</sup> April	12:00am – 12:00pm	Development of the Face, palate, tongue, pituitary and thyroid gland	Histology Lab	Dr. Pulei
	<b>Week 20 Study Objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>1. State the boundaries and contents of the anterior and posterior neck triangles</li> <li>2. Review the parts, course and clinical relevance of the brachial plexus</li> <li>3. Describe the anatomy of the carotid arterial system.</li> <li>4. State the origin, course and communications of the internal jugular vein</li> <li>5. State the location, parts, relations, cell types, secretions and effects of secretions of the pituitary, pineal, thyroid and parathyroid glands</li> <li>6. Describe the development and congenital anomalies of the palate, tongue, thyroid and pituitary glands</li> <li>7. State the basis of common malformations of this region such as the first arch syndromes (Pierre-Robins &amp; Treacher-Collins)</li> </ol>				



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Week	Day	Time	Task and group	Venue	Facilitator
<b>WEEK 21</b>	Thursday	8:00am – 10:00am	Oral cavity and the salivary glands	Nursing lecture theatre	Dr. Pulei
	11 <sup>th</sup> April	10:00am –12:00pm	Anatomy of the head & neck airways: Nose, pharynx, Larynx and Trachea	Nursing lecture theatre	Dr. Gikenye
	Friday	8:00am – 10:00am	Practical: Oral cavity and associated structures	Histology Lab	Dr. Munguti
	12 <sup>th</sup> April	10:00am –12:00pm	Practical: Endocrine glands of the abdomen and Pelvis (make up for the holiday the following week)	Histology Lab	Dr. Ndung’u
	<b>Week 21 Study objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>1. State attachments and movements of the tongue</li> <li>2. Outline the somatic motor, visceromotor, general sensory and special sensory innervation of the tongue</li> <li>3. Name the major salivary glands and state where each open</li> <li>4. Describe the structure of the nasal cavity, pharynx, larynx and trachea</li> <li>5. Name the parts of the pharynx</li> <li>6. State the cell types and secretions of the pancreatic islets of Langerhans</li> <li>7. Name the zones, secretions, effects of secretions and clinical relevance of the adrenal cortex</li> <li>8. Name the cell types and secretions of the adrenal gland</li> <li>9. State the endocrine components of the testis and ovary</li> </ol>				
Week	Day	Time	Task and group	Venue	Facilitator
<b>WEEK 22</b>	Thursday	8:00am – 10:00am	Gross anatomy practical: Head and Neck anatomy	Gross Anatomy Lab	BSc & MSc
	18 <sup>th</sup> April	12:00am –12:00pm	Gross anatomy practical: Head and Neck anatomy	Gross Anatomy Lab	BSc & MSc
	Friday	8:00am – 10:00am	<b>GOOD FRIDAY</b>		
	19 <sup>th</sup> April	12:00am –12:00pm			
	<b>Week 22 Study Objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>1. Appreciate the various organs and structures of the head and neck as demonstrated in the gross anatomy lab</li> </ol>				



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<b>ANATOMY OF THE THORAX &amp; CARDIORESPIRATORY SYSTEM (WEEKS 23-24)</b>					
Week & Dates	Day	Time	Task and group	Venue	Facilitator(s)
<b>WEEK 23</b> <b>22<sup>nd</sup> – 26<sup>th</sup> April</b>	Mon - Wed				
	Thursday	8:00am – 10:00am	Anatomy of the chest wall and the respiratory system	Nursing Lecture Theatre	Dr. Gikenye
	25 <sup>th</sup> April	10:00am – 12:00pm	Anatomy of the chest wall and the respiratory system	Nursing Lecture Theatre	Dr. Gikenye
	Friday	8:00am – 10:00am	Development and anomalies of the respiratory system	Histology lab	Dr. Butt
	26 <sup>th</sup> April	10:00am – 12:00pm	Histology practical: Respiratory system	Histology Lab	Dr. Mwachaka
	<b>Week 23 Study objectives and review questions:</b> <ol style="list-style-type: none"> <li>Outline the skeletal and muscular components of the chest wall</li> <li>Name and identify the primary and secondary muscles of respiration</li> <li>Explain the mechanisms of inspiration</li> <li>Describe the layers, parts, recesses and clinical relevance of the pleura</li> <li>Describe the morphological organization of the lung, and state the differences between the right and left lung</li> <li>State the cell types of the respiratory epithelium and indicate the functions of each</li> <li>Describe the histological organization of the tracheal wall</li> <li>Outline the proximodistal structural changes in the airway structure</li> <li>State the components of the thin and the thick air-blood barriers and state the role of each</li> <li>Describe the stages of lung development and give embryological basis of common malformations</li> </ol>				
<b>WEEK 24</b> <b>29<sup>th</sup> April – 3<sup>rd</sup> May</b>	Mon - Wed				
	Thursday	8:00am – 10:00am	Anatomy of the mediastinum: Divisions and contents	Nursing Lecture Theatre	Dr. Odula
	2 <sup>nd</sup> May	10:00am – 12:00pm	Anatomy of the heart and the pericardium	Nursing Lecture Theatre	Dr. Odula
	Friday	8:00am – 10:00am	Histology practical: Cardiovascular system	Histology Lab	Dr. Kigera
	3 <sup>rd</sup> May	10:00am – 12:00pm	Development of the cardiovascular system I: The Heart	Histology Lab	Dr. Kaisha
	<b>Week 24 Study objectives and review questions:</b> <ol style="list-style-type: none"> <li>Outline the divisions of the mediastinum and list the contents of each division of the mediastinum</li> <li>Name the contents of the thoracic inlet</li> <li>Name the chambers of the heart and describe blood flow through the heart chambers</li> <li>Name the types of valves in the heart and state the components of the atrioventricular valve</li> <li>Name the histological layers of the heart wall</li> <li>State the histological features of cardiac muscle cells</li> <li>Outline the components and the histological features of the cardiac conduction tissue</li> <li>Name the layers of an arterial wall and describe the features and role of each layer</li> <li>Name the histological types of arteries and state the features of each, citing examples</li> <li>Describe the histological types of capillaries and state where each is found</li> <li>Describe the early stages of heart development up to chamber septation</li> <li>Describe the foetal circulation and name the various foetal shunts, stating the role of each</li> <li>Outline the cardiovascular changes that occur at birth</li> <li>Name the cyanotic and acyanotic congenital heart diseases</li> </ol>				



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## ANATOMY OF THE ABDOMEN (WEEKS 25-30)

Week & Dates	Day	Time	Task and group	Venue	Facilitator(s)
<b>WEEK 25</b> <b>6<sup>th</sup> – 10<sup>th</sup> May</b>	Mon - Wed				
	Thursday	8:00am – 10:00am	Gross practical: The chest wall and respiratory system	Nursing Lecture Theatre	BSc & MSc
	9 <sup>th</sup> May	10:00am – 12:00pm	Gross practical: The mediastinum & cardiovascular system	Nursing Lecture Theatre	BSc & MSc
	Friday	8:00am – 10:00am	Histology practical: Lymphoid organs	Histology Lab	Dr. Kigera
	10 <sup>th</sup> May	10:00am – 12:00pm	Development of Cardiovascular system II: Vascular system and fetal circulation	Histology Lab	Dr. Kaisha
<b>Week 25 Study objectives and review questions:</b> <ol style="list-style-type: none"> <li>1. Appreciate the landmarks and components of the chest wall as previously taught</li> <li>2. Appreciate the components of the respiratory system</li> <li>3. Appreciate the differences between the right and the left lung</li> <li>4. Appreciate the lung hilum and identify the major structures that go through it</li> <li>5. Identify the pleura and review its various parts</li> <li>6. Identify the thoracic diaphragm and study the various openings through it</li> <li>7. Site varieties of mucosa associated lymphatic tissue (MALT) and state the histological structure of each</li> <li>8. Describe the histological structure of a lymph node, spleen, thymus and bone marrow</li> <li>9. Describe the foetal circulation</li> <li>10. Outline the cardiovascular changes at birth</li> </ol>					
<b>WEEK 26</b> <b>13<sup>th</sup> – 17<sup>th</sup> May</b>	Mon - Wed				
	Thursday	8:00am – 10:00am	Anatomy of the abdominal walls & abdominal regions	Nursing Lecture Theatre	Dr. Ndung'u
	16 <sup>th</sup> May	10:00am – 12:00pm	Anatomy of the Hollow GIT	Nursing Lecture Theatre	Dr. Butt
	Friday	8:00am – 10:00am	Histology practical: Digestive System I: Hollow GIT	Histology Lab	Dr. Kigera
	17 <sup>th</sup> May	10:00am – 12:00pm	Development and congenital anomalies of the hollow GIT	Histology Lab	Dr. Olabu
<b>Week 26 Study objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>1. Name the surface landmarks of the abdomen</li> <li>2. Name the layers of the anterolateral abdominal wall and name the muscles in the anterior abdominal wall</li> <li>3. State the location, contents and clinical relevance of the inguinal canal</li> <li>4. Outline the division of the abdominal cavity into the four and nine regions and state the contents of each</li> <li>5. Outline the path followed by food from the oral cavity to the anus, highlighting of the processes food undergoes along this path, and the various sphincters encountered</li> <li>6. Name the segments of the small and large gut</li> <li>7. Outline gross anatomical features of the colon and state the anatomical differences between the small &amp; large bowel</li> <li>8. Describe the structural organization of the GIT wall and highlight on the regional differences proximodistally</li> <li>9. Name the intrinsic glands of the GIT and state the functions of each</li> <li>10. Name the cell types of the gastric glands and state the role of each</li> <li>11. Describe the vascular territories of the GIT and relate this with embryonic origin</li> <li>12. Outline the embryonic origin of the various tissue lines of the GIT</li> <li>13. State the origin, developmental sequence and related congenital anomalies of the esophagus and stomach</li> <li>14. State the origin, developmental stages and related congenital anomalies of the intestines</li> <li>15. Describe development and congenital anomalies of the pancreas, liver, gall bladder and the spleen and state the congenital anomalies of each</li> </ol>					



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Week & Dates	Day	Time	Task and group	Venue	Facilitator(s)
<b>WEEK 27</b> <b>20<sup>th</sup> – 24<sup>th</sup> May</b>	Monday		<b>MID-SEMESTER II CONTINUOUS ASSESSMENT TEST</b> <b>(STRUCTURED ESSAY QUESTIONS)</b>		
	Tuesday				
	Wednesday				
	Thursday				
	Friday				

Week & Dates	Day	Time	Task and group	Venue	Facilitator(s)
<b>WEEK 28</b> <b>27<sup>th</sup> – 31<sup>st</sup> May</b>	Monday		<b>MID-SEMESTER II CONTINUOUS ASSESSMENT TEST</b> <b>(MULTIPLE CHOICE QUESTIONS)</b>		
	Tuesday				
	Wednesday				
	Thursday				
	Friday				

Prepared by: .....  
 Dr. Beda Olabu

Approved by: .....  
 Dr. Pamela Mandela  
 Ag. Chairman

Date:...../...../2019



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Week & Dates	Day	Time	Task and group	Venue	Facilitator(s)
<b>WEEK 29</b> <b>3rd – 7th June</b>	Mon –Wed				
	Thursday	8:00am – 10:00am	Anatomy of the extrinsic glands of the digestive system	Nursing Lecture Theatre	Dr. Ndung'u
	6 <sup>th</sup> June	10:00am – 12:00pm	Self-study	Gross Anatomy Lab	
	Friday	8:00am – 10:00am	Histology practical: Digestive system II: Extrinsic glands	Histology Lab	Dr. Ongeti
	7 <sup>th</sup> June	10:00am – 12:00pm	Development of Digestive system II: Extrinsic glands	Histology Lab	Dr. Awori
	<b>Week 27 Study objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>1. Name the extrinsic glands of the digestive system</li> <li>2. Name the major salivary glands and state the location and role of each</li> <li>3. State the location, major relations and functions of the liver</li> <li>4. Name the parts of the pancreas and state its functions</li> <li>5. Appreciate the structures that form the anterior and posterior abdominal walls as demonstrated in the lab</li> <li>6. Name the apertures through the thoracic diaphragm and indicate the vertebral level and contents of each</li> <li>7. State the innervation of the thoracic diaphragm</li> <li>8. Name the cell types of the liver and state the functions of each</li> <li>9. Describe the histological lobules of the liver and state the basis of each</li> <li>10. Describe the histological organization of the pancreas, highlighting on the various pancreatic cells and their roles</li> <li>11. Outline the key histological features and differences in the various major salivary glands</li> <li>12. Describe the histological structure of the gall bladder and state how it is adapted to its functions</li> </ol>				
<b>WEEK 30</b> <b>10<sup>th</sup> – 14<sup>th</sup> June</b>	Mon - Wed				
	Thursday	8:00am – 10:00am	Anatomy of the urinary system	Nursing Lecture Theatre	Dr. Odula
	13 <sup>th</sup> June	10:00am – 12:00pm	Self-study		
	Friday	8:00am – 10:00am	Histology practical: Urinary system	Histology Lab	Dr. Ongeti
	14 <sup>th</sup> June	10:00am – 12:00pm	Development of the urinary system and adrenal gland	Histology Lab	Dr. Obimbo
	<b>Week 30 Study objectives and review questions:</b> <ol style="list-style-type: none"> <li>1. Name the anatomical and functional components of the urinary system</li> <li>2. State the location, gross parts and relations of the kidneys</li> <li>3. Describe the cross-sectional anatomy of the kidney</li> <li>4. Define and state the components of the renal capsule, cortex, medulla, pyramid, lobule, papilla and calyces</li> <li>5. Describe the structure of the nephron</li> <li>6. State how different segments of the nephron are adapted to their functions</li> <li>7. Name the components and functions of the juxtaglomerular apparatus</li> <li>8. Outline the endocrine function of the kidney</li> <li>9. Describe the histological structure of the ureters</li> <li>10. Outline the features of the urothelium</li> <li>11. Describe the histological organization of the bladder wall</li> <li>12. State the embryonic origin of the urinary systems</li> <li>13. Name the embryonic kidneys systems and state the timing, location and fate of each</li> <li>14. Outline the sequence of development of the definitive kidney</li> <li>15. Outline the congenital anomalies of the urinary system and state the embryological basis of each</li> </ol>				



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**ANATOMY OF THE PELVIS AND PERINEUM (WEEKS 31-32)**

Week & Dates	Day	Time	Task and group	Venue	Facilitator(s)
<b>WEEK 31</b> <b>17<sup>th</sup> – 21<sup>st</sup> June</b>	Mon – Wed				
	Thursday	8:00am – 10:00am	Anatomy of the male and female reproductive systems	Nursing Lecture Theatre	Dr. Obimbo
		10:00am – 12:00pm	Anatomy of the male and female reproductive systems	Nursing Lecture Theatre	Dr. Obimbo
	Friday	8:00am – 10:00am	Histology practical: Male reproductive system	Histology Lab	Dr. Pulei
		10:00am – 12:00pm	Development of the reproductive systems I: Sex determination and development of the gonads – All	Histology Lab	Dr. Olabu
	<b>Week 31 Study Objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>Outline the components of the male reproductive system</li> <li>Describe the parts and cross-sectional anatomy of the penis</li> <li>Name the sex glands in males and state the role of each in reproduction</li> <li>Outline the components of the female reproductive system</li> <li>Describe the parts and relations of the uterus</li> <li>Name the parts and function of the Fallopian tube</li> <li>Outline the components of the pelvic floor</li> <li>Describe the histological organization of the prostate, seminal vesicles and the testis</li> <li>State the embryonic origin of the reproductive organs</li> <li>Explain how sex is determined during embryonic development</li> <li>Describe the development and congenital anomalies of the testis and the ovary</li> <li>Highlight on theories of gonadal descent during development</li> </ol>				
<b>WEEK 32</b> <b>24<sup>th</sup> – 28<sup>th</sup> June</b>	Mon – Wed				
	Thursday	8:00am – 10:00am	Gross anatomy practical: Urinary and reproductive systems	Gross Anatomy Lab	BSc & MSc
		10:00am – 12:00pm	Gross anatomy practical: Urinary and reproductive systems	Gross Anatomy Lab	BSc & MSc
	Friday	8:00am – 10:00am	Histology practical: Female reproductive system	Histology Lab	Dr. Obimbo
		10:00am – 12:00pm	Development of the reproductive systems II: Development of the internal and external male and female genitalia	Histology Lab	Dr. Olabu
	<b>Week 32 Study Objectives and Review Questions:</b> <ol style="list-style-type: none"> <li>Appreciate the components of the urogenital system as demonstrated in the lab</li> <li>Describe the histological organization of the ovary, uterus and fallopian tubes</li> <li>Name the embryonic genital ducts and state the derivatives of each</li> <li>Describe the development and congenital anomalies of male and female internal and external genitalia</li> <li>Explain common congenital anomalies of the reproductive systems</li> </ol>				





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Week & Dates	Day	Time	Task and group	Venue	Facilitator(s)
<b>WEEK 33</b> <b>1<sup>st</sup> - 5<sup>th</sup></b> <b>July</b>	Mon - Wed				
	Thursday	10:00am - 10:00am	Review of Embryology	Lecture Theatre	BSc & MSc
		10:00am - 12:00pm	Review of Embryology	Lecture Theatre	BSc & MSc
	Friday	8:00am - 10:00am	Review of Histology slides	Histology Lab	BSc & MSc
		10:00am - 12:00pm	Review of Histology slides	Histology Lab	BSc & MSc

<b>WEEK 34</b> <b>8<sup>th</sup> - 12<sup>th</sup></b> <b>July</b>	Monday	<h1>REVISION WEEK</h1>	
	Tuesday		
	Wednesday		
	Thursday		
	Friday		

<b>WEEKS 35-36</b> <b>15<sup>th</sup> - 26<sup>th</sup></b> <b>July</b>	Monday	<h1>END OF YEAR EXAMINATIONS</h1> <h2>(STRUCTURED ESSAYS AND SPOT EXAM FORMATS)</h2>	
	Tuesday		
	Wednesday		
	Thursday		
	Friday		