



School of Pharmacy and Health Sciences

SEMESTER:	Spring 2018
COURSE:	HAN 1323: Human Anatomy III
LECTURER :	Nyaribo Cyprian Mose
CLASS DAYS/TIME:	Monday/Wednesday (9:00-10:40B, 11:00-12:40A and 1:20-3:00pm)
CLASS VENUE:	SC 6 and 7 and Human Anatomy Lab.
CREDIT UNIT:	4.5
OFFICE HOURS:	T/T 9:00AM-5:00PM
CONTACTS:	Mobile; 0701503745, Office; 29 E-mail; cnyaribo@usiu.ac.ke

COURSE DESCRIPTION:

The general organization of the human body (Gross Anatomy), microscopic components of various systems of the human body (Histology) and intra-uterine development of the fetus (Embryology).

LINK TO UNIVERSITY MISSION AND PROGRAM LEARNING OUTCOMES:

1. **High order thinking:** The ability to collect, analyze and evaluate information and formulate conclusions. Students develop and demonstrate the ability to think critically, analytically and creatively.
2. **Literacy:** Competence in oral, written, quantitative, and technological skills. Students develop and demonstrate competency in oral and written communication as well as demonstrate scientific, quantitative and technological literacy.
3. **Global understanding and multicultural perspective:** Awareness, knowledge and appreciation of both the diversity and commodity of cultures. Students acquire these perspectives through formal study of languages, history, literature and the arts and through working, studying and living cooperatively in a radically, ethnically, and culturally diverse environment. Further, students acquire an understanding of economic, historical, political, geographic and environmental relationships on a global basis.
4. **Preparedness for career:** Mastery of a field of knowledge and its multi-cultural and multinational application. Such mastery is accomplished through both formal study and various experienced forms of learning such as internships and field experiences.

5. **Community service and development:** A sense of being part of a community and a desire to be of service to it. Students are given opportunities to participate in community service, citizenship, or social action projects or activities.
6. **Leadership and ethics:** As part of their growth and development, students formulate and articulate the ethical standards which will guide their professional and personal lives.

Program Learning outcomes

By the end of their training the graduates should be able to:

1. Plan, organize and control the manufacturing, compounding, packaging and quality of pharmaceutical products.
2. Plan, organize and manage the procurement, storage and distribution of pharmaceutical materials and products.
3. Interpret and uphold the laws, regulations and ethics that govern the practice of pharmacy.
4. Provide pharmacist-initiated care to patients and ensure the rational use of medicines.
5. Provide information, advice and education on disease, health, community health and medicines-related issues.
6. Participate in pharmaceutical and medical research and evaluate critically new therapies and current advances in formulation and modes of drug action to ensure the optimal selection and use of medicines.

Course Learning Outcomes:

Upon completion of this course, students should be able to:

1. Demonstrate the basic History of Head and neck and their clinical correlation.
2. Demonstrate the concept of basic neuroembryology and associated congenital defects
3. Demonstrate the structural and gross features of the head and neck and its clinical application
4. Demonstrate the structural and gross features of the brain and its clinical application

COURSE CONTENT

WEEK	TOPIC	Activity and learning outcomes	READING
WEEK 1	Theory - Gross Head and Neck	(Outcomes 1,3)	Reading: Course Text pp 1-40 (Gross)
	Practical • Head and Neck		Reading: Course Text pp 1-150 Histology
WEEK 2	Theory - Gross Head and Neck	Outcome 1,3)	Reading: Course Text pp 1-150 Histology
	Practical • Head and Neck		Reading: Course Text pp 1-150 Histology
WEEK 3	Theory – Embryology • Head and Neck	(Outcome 2) Group discussion Individual assignment	Reading: Course Text: pp 1-117 Embryology
	Practical • Head and Neck		Reading: Course Text: pp 1-150 Histology
WEEK 4	Theory • Neuroembryology	(Outcomes 1,5) Quiz 1,	Reading: Course Text: pp 118-149 Embryology
	Practical Gross Practical		Reading: Course Text pp 433- 440 (Gross)
WEEK 5	Theory • Nervous system histology	(Outcomes 3,4) Group Discussion	Reading: Course Text pp 440- 466 (Gross)
	Practical • Nervous system histology		
WEEK 6	Theory • Spinal cord	(Outcomes 3,4)	Reading: Course Text pp 440- 466 (Gross)

	Practical Spinal cord		
WEEK 7	MID-SEMESTER EXAMINATION (M.S.E)		
WEEK 8	Theory • Cranial cavity • Brain	(Outcomes 3,4) Group Discussion Group Assignment	Course Text: pp 354-368
	Practical Cranial cavity		
WEEK 9	Theory • Brain	(Outcomes 3,4) Quiz 2	Course Text pp 276-310
	Practical Brain		
WEEK 10	Theory • Brain Stem	Quiz 3 covering wk 8 and 9 (Outcomes 3,4)	Course Text: pp 470-528
	Practical • Brain Stem		
WEEK 11	Theory • Cerebellum • Cerebrum	(Outcomes 6) Group Discussion	Course Text: pp 532-557
	Practical • Cerebellum • Cerebrum		
WEEK 12	Theory • Basal ganglia • Limbic system • CSF	(Outcomes 3,4,6) Quiz 2	Course Text: pp 560-585
	Practical • Basal ganglia • Limbic system • CSF		
WEEK 13	END SEMESTER EXAMINATION	(Outcome 1,2,3,4,5,6)	Course Text: pp 319, 338-341, 438-466
WEEK 14	Practical and oral Examination	ESE (Written)	

TEACHING METHODOLOGY:

- Lectures, using power point presentations and class discussions.
- Lectures will be given in class to explain to students various topics on the environment
- Lectures will take a participatory approach where the instructor will involve students by frequently asking them questions that are meant to keep them alert and trigger class discussions
- The instructor will also be free to answer questions from students in the course of the lectures
- Video shows on environment will be shown in class when available after the relevant topic has been covered.

COURSE EVALUATION

1. Attendance	10%
2. Individual assignment	10%
3. Group Assignment	10%
4. CATS/assignments/Quizzes	10%
5. Mid-semester Examination	20%
6. End semester Practical Exam	10%
7. Viva voce	5%
8. End semester written Examination	25%
Total	<u>100%</u>

Note: seven absences from class will result in an automatic **grade F**.

REFERENCE BOOKS

Course Text

Gross Anatomy Atlases

1. Agur, M.R.A. et al., 2005. Grants Atlas of Anatomy. Lippincott, A Wolters Kluwer. 11th edition.
2. F. H. Netter, *Atlas of Human Anatomy. Student Edition*, 4th edition, 2006, ISBN 9781416033851
3. Singh, I., 2004. Atlas of Human Anatomy. Jaypee Brothers, New Delhi.

Gross Anatomy Text Books

4. Snell, R.S., 2004. Clinical Anatomy for medical students. Lippincott Williams and Wilkins, Philadelphia. 7th edition.
5. K. L. Moore, A. F. Galley, *Clinically Oriented Anatomy*, 5th ed., Lippincott Williams & Wilkins 2005, ISBN 0781736390

Histology Texts

6. Young, B., 2000. Wheaather's functional Histology. Churchill Livingstone, Edinburgh. 4th edition.
7. Bergman, R.A. et al., 1974. Atlas of Microscopic Anatomy. A companion to Histology and Neuroanatomy. W.B. Saunders Company, Philadelphia.

Embryology Texts

8. Sadler, L. 1975. Medical Embryology. The Williams and Wilkins. Baltimore. 3rd edition.
9. Snell, R.S., 1972. Clinical Embryology for Medical Students. Little Brown and company, Boston.

Dissection Manual Texts

10. BD Chaurasia's Human Anatomy Regional and Applied Dissection and Clinical: Vol. 1,2, 3:– Illustrated, Jan 2013
11. Romanes, G.J., 1986: Cunningham's Manual of Practical Anatomy. Oxford University New York. 15th edition Vol. 1, Vol. 2, and Vol. 3.

GRADING

A	90-100
A-	87-89
B+	84-86
B	80-83
B-	77-79
C+	74-76
C	70-73
C-	67-69
D+	64-66
D	62-63
D-	60-61
F	0-59