



Course Specifications

Course Title:	Anatomy, Embryology & Histology
Course Code:	ANA113
Program:	Bachelor of Dental Surgery (BDS)
Department:	Basic Medical Sciences Department
College:	College of Dentistry in Alzulfi
Institution:	Majmaah University

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A. Course Identification

1. Credit hours: 8
2. Course type
a. University <input type="checkbox"/> College <input checked="" type="checkbox"/> Department <input type="checkbox"/> Others <input type="checkbox"/>
b. Required <input checked="" type="checkbox"/> Elective <input type="checkbox"/>
3. Level/year at which this course is offered: 1 st year
4. Pre-requisites for this course (if any): No
5. Co-requisites for this course (if any): No

6. Mode of Instruction (mark all that apply)

No	Mode of Instruction	Contact Hours	Percentage
1	Traditional classroom	√	50%
2	Blended		
3	E-learning		
4	Correspondence		
5	Other (lab)	√	50%

7. Actual Learning Hours (based on academic semester)

No	Activity	Learning Hours
Contact Hours		
1	Lecture	4
2	Laboratory/Studio	4
3	Tutorial	-----
4	Others (specify)	-----
	Total	8
Other Learning Hours*		
1	Study	3
2	Assignments	5
3	Library	5
4	Projects/Research Essays/Theses	5
5	Others (specify)	2
	Total	20

* The length of time that a learner takes to complete learning activities that lead to achievement of course learning outcomes, such as study time, homework assignments, projects, preparing presentations, library times

B. Course Objectives and Learning Outcomes

1. Course Description

This course is a study of the anatomical structure of the human body with special emphasis to head and neck region. Body structure will be studied by organ systems and will involve a balance between gross anatomical study, embryology and histology. The laboratory study will

involve working with human skeletal model collections and plastinated specimens.

2. Course Main Objective

This course is based on enhancing study of the basic knowledge related to description of the cell structure and the functions of its components, description of the structure of the basic body tissues, description of anatomical terms, and human biology, description of the macroscopic and microscopic structure of the organ system of the human body, description of the detailed anatomy of the head and neck. General embryology and Development of the face, neck and skull will be also discussed in the course.

3. Course Learning Outcomes

CLOs		Aligned PLOs
1	Knowledge:	
K1.1	Define the basics of normal structures & demonstrate anatomical and histological components of different body systems & development of head & neck region	K1
K3.1	Recall the medical, dental and other concepts needed for the practice of dentistry.	K3
2	Skills :	
S1.1	Correlate between the relation between functions & components of different body systems & the developmental changes of face and palate of normal & diseased tissues	S1
3	Competence:	
C1.1	Demonstrate ethical, professional, and legal responsibilities in the dentistry profession.	C1

C. Course Content

No	List of Topics	Contact Hours
	First semester	
1	Introduction to Anatomy	4
2	Skeletal system , Joints & Cartilage	4
3	Muscular system	8
4	Circulatory system	8
5	Lymphatic System	4
6	Urinary system	4
7	Respiratory system	8
8	Digestive system	8
9	Male reproductive system Female reproductive system	8
10	Nervous system	8
11	Endocrine glands	8
12	Introduction to embryology	4
13	Fertilization	4
14	Germ layers	4
15	Fetus	4
16	Tissue preparation and light microscopy	8
17	Epithelial tissues	4
18	Muscle tissue	4
19	Nerve tissue	4

20	Connective tissue	4
21	Revision	8
22	Midyear exam	4
	Second semester	
23	Bones of the head and neck	8
24	Foramens of the head	16
25	The scalp Muscles of the face	8
26	Cranial nerves	16
27	Facial muscles	8
28	Neck muscles	8
29	Muscles of mastication	8
30	Blood supply of the head and neck	8
31	The orbit	8
32	TEMPORAL FOSSA Infratemporal fossa	8
33	Oral cavity and salivary gland	8
34	Review & Self-study material	8
35	Review & Self-study material	8
	Practical exam	-----
	final exam	-----
	Total	120

D. Teaching and Assessment

1. Alignment of Course Learning Outcomes with Teaching Strategies and Assessment Methods

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
1.0	Knowledge		
K1.1	Define the basics of normal structures & demonstrate anatomical and histological components of different body systems & development of head & neck region	1. Lectures 2. Audiovisual & lab sessions	Recall/Factual Questions in Written exams , Oral evaluations, OSPE, Assignments, Quizzes
K3.1	Recall the medical concepts regarding head and neck region needed for the practice of dentistry.		
2.0	Skills		
S1.1	Correlate between the relation between functions & components of different body systems & the developmental changes of face and palate of normal & diseased tissues	1. Lectures 2. Audiovisual & lab sessions	Recall/Factual Questions in Written exams , Oral evaluations, OSPE, Assignments, Quizzes
3.0	Competence		
C1.1	Demonstrate ethical, professional, and legal responsibilities in the dentistry profession.	Lab Session & group discussion	<ul style="list-style-type: none"> ▪ logbook. ▪ Research projects. The group task /

Code	Course Learning Outcomes	Teaching Strategies	Assessment Methods
			Assignment work supervised closely and the work done by each student evaluated using rubrics in weekly assessment, assignments.

2. Assessment Tasks for Students

#	Assessment task*	Week Due	Percentage of Total Assessment Score
1	Theoretical midyear exam	To be announced by the college	20%
2	Practical midyear exam	14 th	20%
3	Weekly practical, theoretical, attendance & homework assessment	Weekly	10%
4	Activities	General	10%
5	Final theoretical exam	To be announced by the college	20%
6	Final practical exam	29 th	20%

*Assessment task (i.e., written test, oral test, oral presentation, group project, essay, etc.)

E. Student Academic Counseling and Support

Arrangements for availability of faculty and teaching staff for individual student consultations and academic advice :

- Students will be informed in advance to assemble themselves in the classroom for group discussions
- Students will be informed about the written tasks in the form of essays.
- Students will be encouraged towards use of internet sources and library for the study and completion of the assignments

F. Learning Resources and Facilities

1. Learning Resources

Required Textbooks	<ul style="list-style-type: none"> • Illustrated anatomy of the head and neck. Margaret J. Fehrenbach, Susan W. herring. Saunders Elsevier 2007. • Color atlas of head and neck anatomy, ed. 3, London, 2003, Mosby Ltd. • Last's Clinical anatomy 6th Ed. 2006. • <u>Anatomy of the Human Body". Henry Gray. 20th edition. 1918". Retrieved on 19 March 2007.</u> • <u>Gray's Anatomy. 39th edition (UK). 2004. ISBN 0-443-</u>
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	07168-3". Clinically oriented anatomy. Keith. L. Moore. 4 th Ed. 1999.
Essential References Materials	<ul style="list-style-type: none"> • Clinical anatomy by regions, ed. 9, Snell, 2004 Lippincott Williams & Wilkins. • Textbook of general embryology – Inder Bir singh
Electronic Materials	<ul style="list-style-type: none"> • Articles prepared by course director • Video for anatomy of various body organs • Presentations
Other Learning Materials	

2. Facilities Required

Item	Resources
Accommodation (Classrooms, laboratories, demonstration rooms/labs, etc.)	Lab must be suitable for the number of students (maximum 20/class).
Technology Resources (AV, data show, Smart Board, software, etc.)	<ul style="list-style-type: none"> • Laptop • Smart Board • Internet connection
Other Resources (Specify, e.g. if specific laboratory equipment is required, list requirements or attach a list)	<ul style="list-style-type: none"> • Anatomical models • Histological slides • Data show projectors

G. Course Quality Evaluation

Evaluation Areas/Issues	Evaluators	Evaluation Methods
Effectiveness of teaching and assessment	Students	<ul style="list-style-type: none"> ✓ Course Evaluation Survey ✓ Quality of Exam Survey
	Faculty	<ul style="list-style-type: none"> ✓ CLO Mapping with teaching & assessment. ✓ Course Blueprinting ✓ Grade Analysis ✓ Psychometric Analysis
	Peers	Grade Verification
Extent of achievement of course learning outcomes	Faculty member / Quality assurance committee	<ul style="list-style-type: none"> ✓ Direct assessment outcome analysis ✓ Course report preparation
Quality of learning resources, etc	Students / Faculty	<ul style="list-style-type: none"> ✓ Academic advising survey ✓ Student experience survey

Evaluation areas (e.g., Effectiveness of teaching and assessment, Extent of achievement of course learning outcomes, Quality of learning resources, etc.)

Evaluators (Students, Faculty, Program Leaders, Peer Reviewer, Others (specify))

Assessment Methods (Direct, Indirect)

H. Specification Approval Data

Council / Committee	Department Council
Reference No.	_____
Date	