



University: Damanhour
Department: Anatomy and Embryology

Faculty: Veterinary Medicine

General Anatomy and Embryology Course Specifications (2020/2021)

Program(s) on which the course is given: BVSc
Department offering the program: ---
Department offering the course: Anatomy and Embryology
Major or Minor element of programs: Major
Academic year /Level: 1st Year 1st Semester
Date of specification approval:

A. BASIC INFORMATION

Title: General Anatomy and Embryology

Code: 1AANA

Hours:

Lectures 3 hrs/week

Practical 3 hrs/week

Total 90 hrs (15 Weeks)

B. PROFESSIONAL INFORMATION

1. Overall aims of the course:

This course provides the ground knowledge and ability to:

- Recognize the structure complements of animal body; namely the growth anatomical features of the thoracic limb.
- Recognize the structure complements of animal body; namely the growth anatomical features of the pelvic limb
- Recognize the structure complements of animal body; namely the growth anatomical features of the vertebral column and skull.

2. Intended Learning Outcomes (ILOs) of the Course:

By the end of this course, students should be able to recognize:

a. Knowledge and Understanding:

- a1 Understand the principle component of the locomotors system with special references to the thoracic limb
- a2 Understand the principle component of the locomotors system with special references to the hind limb.
- a3 Understand the principle component of the locomotors system with special references to the vertebral column and ribs.
- a4 Understand the principle component of the locomotors system with special references to the skull.

b. Intellectual Skills: The student should be able to

- b1 analyze the diversity of knowledge in the term of growth anatomical characteristics



of each organ and/or structure

b2 Distinguish with evidence and confidence characteristic features of each organ and / or structures in each animal class.

c. Professional and Practical Skills: The student will be qualified in

c1 Recognize the anatomical techniques suitable for preserving each organ and / or structure.

c2 Identify and compare the bones forming thoracic and pelvic limb.

c3 Identify and compare the bones of the vertebral column and skull.

d. General and Transferable Skills:

d1 The ability to use simple word and IT skills (i.e., data processing, software, internet, and multimedia) and the library to find information

d2 The ability to be self-motivated learners and responsive to feedback.

d3 Working in team (i.e., sharing presentations and discussions and solving problem).

d4 Enhancement of research capability by working in independent projects.

3. Contents:

Lecture				
	No. of			
Topic	hours	Lectures	Practical	
▪ Topographical terms, body planes and organization of animal body	3	3	0	
▪ General osteology: principles of the animal bones and skeleton	3	3	0	
▪ General arthrology: principles of animal joints and movements	3	3	0	
▪ General myology : principle of muscles	3	3	0	
▪ General and comparative features of the scapula	3	3	0	
▪ General and comparative features of the hummers	3	3	0	
▪ General and comparative features of the radius, ulna and carpal	3	3	0	
▪ General and comparative features of the metacarpus and digits	3	3	0	
▪ General and comparative features of the pelvic bone	3	3	0	
▪ General and comparative features of the femur	3	3	0	
▪ General and comparative features of the tibia, fibula and tarsal bone	3	3	0	
▪ General features of the skull facial	3	3	0	
▪ General features and comparative of skull cranial	3	3	0	
▪ General and comparative features of the vertebral column, ribs and sternum	3	3	0	
▪ Guidance of students for final written, oral and practical examinations	3	3	0	
Total	45	45	0	

Practical				
	No. of			
Topic	hours	Lectures	Practical	
▪ Topographical terms, body planes and organization of animal body	3	0	3	
▪ General and comparative features of the scapula	3	0	3	



▪ General and comparative features of the hummers	3	0	3
▪ General and comparative features of the radius, ulna and carpal	3	0	3
▪ General and comparative features of the metacarpus and digits	3	0	3
▪ General and comparative features of the pelvic bone	3	0	3
▪ General and comparative features of the femur	3	0	3
▪ General and comparative features of the tibia, fibula and tarsal bone	3	0	3
▪ Review and training on practical examination	3	0	3
▪ General features of the skull facial	3	0	3
▪ General features and comparative of skull cranial	3	0	3
▪ General and comparative features of the cervical and thoracic vertebrae	3	0	3
▪ General and comparative features of the lumbar and caudal vertebrae	3	0	3
▪ General and comparative features of the ribs and sternum	3	0	3
▪ Preparation of the final practical examination	3	0	3
Total	45	0	45

4. Teaching and Learning Methods:

- 4.1 Lectures
- 4.2 Practical (tutor presentation followed by students' small group sessions).
- 4.3 Independent (Laboratory and home assignments supervised by tutor):
 - 4.3.a Writing reports/assignments.
 - 4.3.b Preparation of colored posters and slide presentations.
 - 4.3.c Preparation of bones.
 - 4.3.d Group discussion.
- 4.4 Computer courseware for independent study can be accessed at the education center beside recently developed web courseware

Method for disabled students: (no special arrangements are available now, however those student can consult our staff for help)

5. Student Assessment Methods:

Exam		
5.1	Written Mid-term	To assess knowledge and understanding.
5.2	Written Final-term	To assess knowledge and understanding
5.3	Practical Final-term	To assess professional and practical skills.
5.4	Oral Final-term	To assess intellectual skills, understanding of topics and ways of thinking in resolving problems

Assessment Schedule (in each semester):

	Exam	Week
Assessment 1	Written Mid-term	8 th
Assessment 2	Written Final-term	15 th
Assessment 3	Practical Final-term	15 th
Assessment 4	Oral Final-term	15 th

Weighing of assessments (in each semester):



	Exam	1 st Semester (%)	Total (%)
Assessment 1	Written Mid-term	10	10
Assessment 2	Home and laboratory periodical	10	10
Assessment 3	Written Final-term	50	50
Assessment 4	Practical Final-term	15	15
Assessment 5	Oral Final-term	15	15
	Total	100	100

6. List of References:

6.1. Course Notes:

- Lecture notes (printed): anatomy of domestic animal I. by Prof. DR Ashraf Elsharby (2007)

6.2. Essential Books:

- Getty R., Sisson and Grosman (1975) the anatomy of domestic animals 5th edition W.B Saunders, Philadelphia (volume 1&2)

6.3. Recommended Books:

- Dyce, M.K., Sack, W.O.(2002) Wensing, C.j.G. Textbook of Veterinary Anatomy W. B. Saunders C., Philadelphia

6.4. Periodicals, websites, etc

7. Facilities Required for Teaching and Learning

- For Lecture: A large hall equipped with white board, data show and computer.
- For Laboratory sessions: dissection hall with bones, formalized animals cadavers, dissection materials, anatomical models, colored posters, charts, atlases, handouts and pamphlets.
- For small group discussions (75 students): Convenient hall equipped with white board, computer and video projector.
- Digital library, Internet and networking connections for easy access of online course materials and the recommended websites by our staff.

Course Coordinator: Prof. Dr. Ashraf Elsharaby

Head of Department: Prof. Dr. Ashraf Elsharaby

Date:



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A. BASIC INFORMATION

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Code: 1BANA

Hours:

Lectures 3 hrs/week

Practical 3 hrs/week

Total 90 hrs (15 Weeks)

B. PROFESSIONAL INFORMATION

1. Overall aims of the course:

This course provides the ground knowledge and ability to:

- The growth anatomical features of the digestive, respiratory and urinary organs
- Realize how to compare digestive organs in domestic animals.
- Realize how to compare respiratory organs in domestic animals.
- Realize how to compare urinary organs in domestic animals.
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2. Intended Learning Outcomes (ILOs) of the Course:

By the end of this course, students should be able to recognize:

a. Knowledge and Understanding:

- a1 Understand the typical structure of the digestive organs of the domestic animals
- a2 Understand the typical structure of the respiratory organs of the domestic animals
- a3 Understand the typical structure of the urinary organs of the domestic animals

b. Intellectual Skills: The student should be able to

- b1 analyze the diversity of knowledge in the term of growth anatomical characteristics of each organ and/or structure
- b2 distinguish with evidence and confidence characteristic features of each organ and / or structures in each animal class
- b3 Relate structure-functions relation of those organs system components



- c. Professional and Practical Skills:** The student will be qualified in
- c1 Recognize the anatomical techniques suitable for preserving each organ and / or structure.
 - c2 Identify and compare the organs in different domestic animal
 - c3 identify and compare the organs in different avian species and in different fish species
 - c4 Distinguish between the normal an abnormal organ and / or structure.

- d. General and Transferable Skills:**
- d1 The ability to use simple word and IT skills (i.e., data processing, software, internet, and multimedia) and the library to find information
 - d2 The ability to be self-motivated learners and responsive to feedback.
 - d3 Working in team (i.e., sharing presentations and discussions and solving problem).
 - d4 Enhancement of research capability by working in independent projects.

3. Contents:

Lecture			
Topic	No. of hours	Lectures	Practical
▪ Comparative anatomy of oral cavity, lips and check	3	3	0
▪ Comparative anatomy of tongue, pharynx and esophagus	3	3	0
▪ Comparative anatomy of salivary glands	3	3	0
▪ Basic anatomy and classification of stomach	3	3	0
▪ Comparative anatomy of stomach	3	3	0
▪ Anatomy of ruminant stomach	3	3	0
▪ Comparative anatomy of small and large intestine	3	3	0
▪ Comparative anatomy of liver, spleen and pancreas	3	3	0
▪ Review and discussion of student independent work	3	3	0
▪ Comparative anatomy of the nose, nasal cavity and nasopharynx	3	3	0
▪ Comparative anatomy of larynx and trachea	3	3	0
▪ Comparative anatomy of lung	3	3	0
▪ Comparative anatomy of the kidney	3	3	0
▪ Comparative anatomy of ureter and urinary bladder	3	3	0
▪ Guidance of students for final written, oral and practical examinations	3	3	0
Total	45	45	0

Practical			
Topic	No. of hours	Lectures	Practical
▪ General and comparative features of the oral cavity	3	0	3
▪ General and comparative features of the tongue, oropharynx and esophagus	3	0	3
▪ General and comparative features of the salivary gland	3	0	3
▪ General and comparative features of the monolocular stomach	3	0	3
▪ General and comparative features of the multilocular stomach	3	0	3
▪ General and comparative features of the intestine	3	0	3
▪ General and comparative features of the liver and spleen	3	0	3
▪ Review and training on practical examination	3	0	3



▪ General and comparative features of the nose, nasal cavity and nasopharynx	3	0	3
▪ General and comparative features of the larynx and trachea	3	0	3
▪ General and comparative features of the lung	3	0	3
▪ General and comparative features of the kidney	3	0	3
▪ General and comparative features of the ureter and urinary bladder	3	0	3
▪ Review and training on practical examination	3	0	3
▪ Preparation of the final practical examination	3	0	3
Total	45	0	45

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Weighing of assessments (in each semester):

	Exam	2 nd Semester (%)	Total (%)
Assessment 1	Written Mid-term	10	10
Assessment 2	Home and laboratory periodical	10	10
Assessment 3	Written Final-term	50	50
Assessment 4	Practical Final-term	15	15
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