



General Anatomy and Embryology Course Specifications (2012-2013)

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:	1 st Year
Date of specification approval:	

A. BASIC INFORMATION

Title: General Anatomy and Embryology	Code: 1AANA, 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:

- Recognize the structure complements of animal body; namely the growth anatomical features of the thoracic limb and organ forming the urinary, male genital and female genital system
- Realize how to compare urinary and genital organs in domestic animals.

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 typical organization of body cavities and the serous membranes
- a3 Understand the typical structure of the respiratory organs of the domestic animals
- a4 Understand the typical structure of the urinary and genital 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 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
▪ 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
▪ Organization of thoracic cavity and pleura	3	3	0
▪ Organization of abdominal and pelvic cavities and peritoneum	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
▪ Comparative anatomy of ovaries, uterus, vagina and female urethra	3	3	0
▪ Comparative anatomy of testis, epididymis	3	3	0
▪ Comparative anatomy of the accessory genital gland, spermatic cord scrotum, prepuce and penis	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
▪ 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
▪ Muscles of shoulder girdle - student independent dissection	3	0	3
▪ Muscle of shoulder and arm - student independent dissection	3	0	3
▪ Muscle of forearm and manus- student independent dissection	3	0	3
▪ Blood and nerve supply of the thoracic limb (horse)	3	0	3
▪ Review and training on practical examination	3	0	3
▪ General and comparative features of the urinary organs	3	0	3
▪ General and comparative features of the female genital organ	3	0	3
▪ General and comparative features of testis and epididymis accessory genital gland, scrotum, prepuce and penis	3	0	3
▪ General and comparative features of respiratory system	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:

University: Damanhour

Department: Anatomy and Embryology



Faculty: Veterinary Medicine

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	3	3	0
▪ Comparative anatomy of spleen and pancreas	3	3	0
▪ Review and discussion of student independent work	3	3	0
▪ Basic anatomy of avian skin and skeleton	3	3	0
▪ Basic anatomy of avian digestive system	3	3	0
▪ Basic anatomy of avian respiratory and urogenital systems	3	3	0
▪ Basic anatomy of fish	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 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 bones	3	0	3
▪ General and comparative features of the metatarsal and digits	3	0	3
▪ Muscles of shoulder girdle - student independent dissection	3	0	3
▪ Muscles of sub-lumbar region and lateral muscle of hip and thigh - student independent dissection	3	0	3
▪ Muscles of thigh - student independent dissection	3	0	3
▪ Muscle of leg and foot - student independent dissection	3	0	3
▪ Blood and nerve supply of the hind limb (horse)	3	0	3
▪ Review and training on practical examination	3	0	3
▪ General and comparative features of the stomach	3	0	3
▪ General and comparative features of the oral cavity, tongue and salivary gland	3	0	3
▪ General and comparative features of the intestine, liver and spleen	3	0	3
▪ Basic anatomy of avian and fish	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	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
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:

