





Specification for anatomy and embryology course

2019/2020

A-Affiliation

1.	Relevant program	Bachelor of Veterinary Medical Sciences (BVMSc)
2.	Department offering the course	Anatomy and embryology

Date of specification approval: ministerial decree No. 1727 on 26/4/2017 (Approved in this template by the department council on 1/10/2019)

B-Basic information

1.	Course title	Anatomy and embryology					
2.	Course code	111(B) II					
3.	Level	1 st year					
4.	Semester / //	2 nd semester					
5.	Total hours/we <mark>ek</mark>	4					
6.	Lecture hour <mark>s/week</mark>	2					
7.	Practical hours/week	2					

C-Professional Information

1- Course learning objectives

The course provides the principle information about male and female genital systems and general embryology; beside it also provide the basic information that will enable the students to gain the skills about the comparative anatomy of the different domestic animals concerning this view

2- Intended learning outcomes of the course (ILOs):

a- Knowledge and understanding

After successful completion of the course the students should be able to:

a1- Describe a concise knowledge about the anatomy of the male and female genital systems of different farm animals

a2- Describe a concise knowledge about embryology

a3- Realize the anatomical features and the position of the male and female genital systems for the different domestic animals

a4- Describe the principles of the comparative anatomy for the bones, joints and muscles of the pelvic limb

a5- Describe a concise knowledge about hoof

b- Intellectual skills

After successful completion of the course the students should be able to:







- b1- Determine the different bone types of the different animal species in addition to the joints of pelvic limb in equines
- b2- Determine the sites of the different peripheral nerves and its branches
- b3- Determine the origin and insertion of different skeletal muscles of the pelvic limb
- b4- Determine the basis of embryology and the primordial origin of the different body systems and organs
- b5- Compare between the different organs of male and female genital system in different animals
- b6- Illustrate the anatomy of the hoof

c- Professional and practical skills

After successful completion of the course the students should be able to:

- c1- Measure the professional capability to dissect the pelvic limb
- c2- Measure the professional capability to identify the shape and position of the pelvic limb bones for the different domestic animals and hoof anatomy
- c.3- Evaluate the skills to compare between the pelvic limb bones and joints for the different domestic animals
- c.4- Evaluate the skills of the comparative dissection for male and female genital systems of the different animal species
- c.5- Evaluate the skills for determination of the primordial origin of the different body systems and organs

d- General and transferable skills

- After successful completion of the course the students should have the following skills
- d1- Team working skills group dynamics to reach objectives
- d2- Search skills (internet and conduct a search in digital library)
- d3- Problem solving skills
- d4- Oral presentations skill
- d5- time management skills (Schedule tasks in order of importance)

3- Course contribution in the program ILOs:

Cou	arse ILOS	Program ILOS
А	Knowledge and understanding	a ³
В	Intellectual skills	b ¹
С	Professional and practical skills	c ¹
D	General and transferable skills	d ^{1,2,6}

3.1- Course contents:







Торіс	Lecture hours	Practical hours
Male genital system	6	-
Female genital system	6	-
General Embryology	14	-
Bones of the pelvic limb	-	24
Dissection of the pelvic limb of horse	-	32
Special Arthrology of pelvic limb of horse	4	-
Hoof Anatomy	-	4
Total hours	30	60

The midterm and practical exams are included during the semester

3.2- ILOs matrix:

Topic	A)	B)	C)	D)
Topic	· ·	,	Professional and	General and
	Knowledge and			
	understanding	skills	practical skills	transferable
				skills
Male genital	a1, a3	b5	c4	d1 to d7
system	1.3		0	
Female genital	a1, a3	b5	c4	d1 to d7
system				
General	a2	b4	c5	d1 to d7
Embryology				
Bones of the pelvic	a4	b1	c2,c3	d1 to d7
limb				
Dissection of the	a4	b2,b3	c1	d1 to d7
pelvic limb of				
horse				16
Special Arthrology	a4	b1	c3	d1 to d7
of pelvic limb of				
horse				
Hoof Anatomy	a5	b6	c2	d1 to d7

4- Teaching and learning and assessment methods:

ILOs		Teaching and Learning method								assessment method				
	ILO5		P&M		P	Ps	Bs	S	Rp	semester	midterm	oral	practical	written
and ing	a1	Х	Х	Х	Х	0	Х	Х	0	Х	Х	Х	0	Х
	a2	Х	Х	Х	Х	0	Х	Х	0	Х	Х	Х	0	Х
Knowledge understand	a3	Х	Х	Х	Х	0	Х	Х	0	Х	Х	Х	0	Х
vou	a4	Х	Х	Х	Х	0	Х	Х	Х	Х	0	Х	0	Х
х -	a5	Х	Х	Х	Х	0	Х	Х	0	Х	0	Х	0	Х
tua	b1	Х	Х	Х	Х	Х	Х	Х	0	Х	Х	Х	0	Х
<u>ellectu</u> skills	b2	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	0	Х
Intellectua skills	b3	Х	Х	Х	Х	Х	Х	Х	0	Х	0	Х	0	Х
Ir	b4	Х	Х	Х	Х	Х	Х	Х	Х	Х	0	Х	0	Х

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	b5	Х	Х	Х	Х	Х	Х	Х	0	Х	0	Х	0	Х
	b6	Х	Х	Х	Х	Х	Х	Х	0	Х	0	Х	0	Х
cal	c1	0	Х	Х	Х	Х	Х	Х	0	Х	0	Х	Х	0
practical	c2	0	Х	Х	Х	Х	Х	Х	0	Х	0	Х	Х	0
	c3	0	Х	Х	Х	Х	Х	Х	0	Х	0	Х	Х	0
and	c4	0	Х	Х	Х	Х	Х	Х	0	Х	0	Х	Х	0
	c5	0	Х	Х	Х	Х	Х	Х	0	Х	0	Х	Х	0
skills	d1	Х	Х	0	х	Х	0	0	Х	Х	0	Х	0	0
General sk	d2	0	Х	Х	0	0	Х	0	0	Х	0	Х	0	Х
	d3	Х	Х	Х	Х	Х	Х	Х	0	Х	0	Х	Х	Х
	d4	Х	Х	0	0	0	0	0	Х	0	0	Х	0	0
9	d5	Х	0	0	0	0	0	0	X	0	Х	0	Х	Х
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L :Lecture, P&M: Presentations & Movies, D&S: Discussions & Seminars P: Practical Ps: Problem solving, Bs: Brain storming S: simulation Rp: role play

5- Assessment timing and grading:

Assessment method 🥢	timing	grade
Mid-term exam and semester work	6 th week	15
Practical exam	14 th week	20
oral exam	End of semester	15
Written exam	End of semester	50
total	100	

<u>6- List of references</u>

6.1- Course notes: Male genital system, Female genital system, General embryology, Dissection of the pelvic limb

6.2- Essential books (text books)

- Alexander de Lahunta (2015) Veterinary neuroanatomy and Clinical Neurology
- G. E. Abdelhakim (2009) Atlas Anatomy of The Horse
- T.A.McGeady ,P.J.Quinn (2009) Veterinary Embryology
- T. O. Mccracken (2008) color atlas of small animal anatomy: the essentials
 - K. V.Kardong (2006) Comparative Vertebrate Anatomy

6.3- Recommended books

- Course note
- Alexander de Lahunta (2015) Veterinary neuroanatomy and Clinical Neurology
- T. O. Mccracken (2008) color atlas of small animal anatomy: the essentials
- K. V.Kardong (2006) Comparative Vertebrate Anatomy.

6.4- Periodicals, Web sites, ... etc

- Acta Anatomica.
- Equine Veterinary journal
- American Journal of Veterinary Anatomy







- American Journal of Veterinary Research
- Veterinary Record
- www.ekb.eg

7- Facilities required for teaching and learning

- 1. A laboratory for dissection and demonstration the muscles, bones and nerves of carcasses.
- 2. Scalpels, knifes and saws.
- 3. Carcasses and animals for dissection and demonstration
- 4. Donkeys as a model for horse
- 5. Anatomy museum or anatomy lab. skill

Course coordinator: Dr. Hatem Bahgaat Houssainy

Head of department Dr. Hatem Bahgaat Houssainy

Signature.....

Date. 1/10/2019

