

Specification for Anatomy (A) 2025/2026

1-Basic information

1.	Course title	Anatomy (A)						
2.	Course code	ANE-114							
3.	Department offering the	Anatomy and embryology							
3.	course								
4.	Number of hours	Theoretical	1	Practical	1(2)	Other	0	Total	2(3)
5.	Course Type	$\sqrt{\mathbf{Obligatory}}$	7	Elective					
6.	Level	1 st year							
7.	Semester	Fall semester							
8.	Academic program	Bachelor of Veterinary Medicine (BVM)							
9.	Faculty	Faculty of Veterinary medicine							
10.	University	Benha Unive	ersi	ty					
11.	Name of course	Prof. dr. Ah	nec	l Abdel-Rah	ıman k	Kassab			
11.	coordinator								
12.	Course Specification	Faculty cound	cil/ 2	27-8-2025					
12.	Approval Date								
	Course Specification	Department c	oun	cil/ 8/7/202	5				
	Approval (Attach the								
13.	decision/minutes of the								
	department								
	/committee/council)								

2-Course overview

• Course contents written in the program bylaw: Introduction of general anatomy, topographic anatomy in animals.

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

	e interior real ming outcomes of the course (1205).					
N	ARS	Course				
		ILOS				
C	Code Content	Code	Content			
		a1	Identify knowledge about the			
			anatomy on the standards model			
		a2	Identify the basic knowledge of			
			fish and avian anatomy			

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			a3	Describe the general anatomy
				of Osteology, Arthrology,
				Myology, cardiovascular
		Basic sciences of biology,		system and neurology of
77 1 1		chemistry, biophysics, genetics, biostatics,		equines
Knowledge	2.3	computer science and		- quints
and		veterinary terminology.	a4	Identify a comprehensive
understanding		, , , , , , , , , , , , , , , , , , , ,		knowledge about urinary
				system anatomy
			a5	Define the principles of the
				comparative anatomy for the
				bones, joints and muscles of
				the thoracic limb
			1.1	D' d' 1 d 1
			b1	Distinguish the general
				Osteology, Arthrology,
				Myology and neurology of
				equines and the comparative anatomy of the other different
Intellectual		Foster critical thinking and		domestic farm animal species
skills	4.1	scientific curiosity	b2	Choose the best steps for the
SKIIIS	7.1	selentific editosity	02	avian and fish dissection
			b3	Differentiate the bones of the
			0.5	thoracic limb for the all animal
				species in addition to the joints
				of forelimb in equines
			b4	Distinguish the site of origin of
				the different peripheral nerves
			b5	Detect the origin and insertion
				of different skeletal muscles
			b6	Compare between the different
				organs of urinary system in
			4	different
D C : 1		Employ all the gained	c1	Dissect the thoracic limb
Professional	2.1	knowledge and		
and practical	3.1	understanding in clinical		
		practice in a skillful		

				Seamed University
skills		pattern.	c2	Demonstrate the shape and
				position of the thoracic limb
				bones
			c3	Explore comparison between
				bones and joints of the thoracic
				limb of different domestic
				animals
			c4	Explore comparison between
				organs of urinary,
				cardiovascular, nervous systems
				of different domestic animals
				beside avian and fish anatomy
	5.1	Work under pressure and /	d1	Work under pressure during
		or contradictory		anatomical lab cession
General and		conditions.		
transferable	5.2	Function in a	d2	Self-learning during anatomy
skills		multidisciplinary team.		lecture
	5.5	Search for new	d3	Search for new information
		information and		about Veterinary anatomy.
		technology as well as		
		adopting life-long self-		
		learning.		
	5.6	Utilize computer and	d4	Utilize computer and internet
		internet skills.		skills, read paper via internet
				about Veterinary anatomy.

4- Teaching and learning methods							
Lectures	V	Discussion & seminar	$\sqrt{}$	Practical	$\sqrt{}$		
Presentation & movies	V	Problem solving	√	Brain storming	V		
Others	Simulation & Role play						

- Course contents:

Number	Scientific content of the course	Expected number of the Learning Hours					
of the Week	(Course Topics)	Total Weekly hours	Theoretical teaching (lectures/disc ussion	Training (Practical/ Clinical/	Self-learning (Tasks/ Assignments/	Other	

			•			BEARA UNIVERSIT
			groups/))	Projects/)	
W1	Introduction	2(3)	2	0		0
VV 1	Bones of the thoracic limb		0	1(2)		
W2	General Osteology	2(3)	2	0		0
VV Z	Bones of the thoracic limb		0	1(2)		
W3	General Arthrology (syndesmology)	2(3)	2	0	Formative quiz	0
	Bones of the thoracic limb		0	1(2)		
W4	General Myology	2(3)	2	0		0
***	Bones of the thoracic limb		0	1(2)		
	General Nervous System	2(3)	2	0		0
W5	Dissection of the thoracic limb of horse		0	1(2)		
W6	General Cardiovascular System	2(3)	2	0	Formative quiz	0
****	Dissection of the thoracic limb of horse		0	1(2)		
W7	Semester work (one hour exam)					
****	Urinary system 1	2(3)	2	0		0
W8	Dissection of the thoracic limb of horse		0	1(2)		
1170	Urinary system 2	2(3)	2	0	Formative	0
W9	Dissection of the thoracic limb of horse		0	1(2)	quiz	
11 /10	Urinary system3	2(3)	2	0		0
W10	Dissection of the thoracic limb of horse		0	1(2)		
TX 711	Avian anatomy1	2(3)	2	0		0
W11	Dissection of the thoracic limb of horse		0	1(2)		
W/10	Avian anatomy2	2(3)	2	0	Formative quiz	0
W12	Dissection of the thoracic limb of horse		0	1(2)	quiz	
W13	fish anatomy1	2(3)	2	0		0
*****	Dissection of the thoracic		0	1(2)		



	limb of horse					
W14	fish anatomy2	2(3)	2	0		0
***14	Avian and fish anatomy		0	1(2)		
W15	Practical exam					

5- Assessment timing and grading:

- a- Assessment methods (summative and formative)
- 1. **Formative assessment**: including (weekly quizzes, homework assignments and surveys).
- 2. **Summative assessment** including (quizzes, class activities, semester work (one hour) exam, practical exam, oral exams and final written exams).

b- Assessment schedule and weight

Assessment method	Timing	Grade	Percent
Semester work including one	7 th week	10	10%
hour exam	/ Week	10	
Formative assessment	Through semester		
Practical exam	15 th week	30	30%
oral exam	End of semester	10	10%
Written exam	End of semester	50	50%
Total		100	100%

6- Learning resources and supportive facilities:

-	o- Learning resources and supportive facilities.						
	Main reference	Student handbook: General anatomy,					
		Avian anatomy, Fish anatomy, Anatomy of					
		urinary system, Anatomy of thoracic limb.					
Learning resources	Essential books (text books)	 H.E. Konig & H. G. Liebich (2020) veterinary anatomy of domestic mammals text book and colour atlas 7th Edition. Dyce, Sack and Wensing's (2018) Textbook of Veterinary Anatomy fifth edition. Alexander de Lahunta (2015) Veterinary neuroanatomy and Clinical Neurology G. E. Abdelhakim (2009) Atlas Anatomy of The Horse K.S. Roy (2009) foundation of veterinary embryology T.A.McGeady ,P.J.Quinn (2009) Veterinary Embryology Course note Alexander de Lahunta (2015) Veterinary 					



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		 neuroanatomy and Clinical Neurology T.A.McGeady ,P.J.Quinn (2009) Veterinary Embryology.
	Periodicals, Web sites, etc	 Acta Anatomica. Equine Veterinary journal American Journal of Veterinary Anatomy American Journal of Veterinary Research Veterinary Record www.ekb.eg
	Learning platform	Thinqi
supportive facilities	Devices & instruments	 Data show White board Anatomy laboratory Phantoms and models for different organs and bones Carcasses for dissection and demonstration Anatomy museum or anatomy skill lab. Stereo Microscope Light Microscope

Matrices: A- Content and ILOs matrix:

Topic	A) Knowledge and understanding	B) Intellectual skills	C) Professional and practical skills	D) General and transferable skills
General Arthrology (syndesmology)	a1, a3, a4	b1	c4	d1,d2,d3,d4
Avian Anatomy	a2, a4	b1	c4	d1,d2,d3,d4
Fish Anatomy	a2, a3, a4	b1	c4	d1,d2,d3,d4
Urinary System	a4	b6	c5	d1,d2,d3,d4
General Osteology	a4	b2, b3	c2, c3	d1,d2,d3,d4
Dissection of the thoracic limb	a5	b2, b4, b5	c1	d1,d2,d3,d4



B-Teaching and learning

ILOs			Teaching and Learning method										
		L	P&M	D& S	P	Ps	Bs	S	Rp				
Inderstanding	a1	1	V	√ √		V			V				
	a2	1	√	V		√							
	аЗ	1	√	V		1							
	a4	1	√	V		V							
nders	a5	1	√	√		V			V				
	b1	1		√			V						
	b2	1		V			V		V				
skills	b3	1		V			V		V				
ctual	b4	1		V			V		V				
ntellectual skills	b5	1		V			V		V				
ractical skills r	c1			V	V				V				
	c2			V	1				V				
	c 3			V	1				V				
	c4				1				V				
jeneral skills	d1		V				V	V					
	d2	1	V		1	V		V	V				
jener	d3		V						V				



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d4		 	 		

L: Lecture, P&M: Presentations & Movies, D&S: Discussions & Seminars P: Practical Ps: Problem solving, Bs: Brain storming S: simulation, Rp: role play

C-Assessment methods and ILOs matrix:

ILOs		assessment method							
		Formative assessment	Semester work (1 hr	oral	Practical	Written			
	al		exam	V		V			
	a2		$\frac{1}{\sqrt{1}}$	1		V			
Knowledge	a3		$\sqrt{}$	Ž		Ž			
and	a4		$\sqrt{}$	V		V			
understanding	a5	V							
	b1	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$		$\sqrt{}$			
	b2		V	$\sqrt{}$					
	b3	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$		$\sqrt{}$			
Intellectual	b4	$\sqrt{}$		$\sqrt{}$		$\sqrt{}$			
skills	b5	$\sqrt{}$							
	b6	$\sqrt{}$							
	c1				V				
Professional	c2				V				
and practical	c3				V				
skills	c4			,	V				
	d1	V		√ √					
General skills	d2	V		V					
	d3	V		√					
	d4	$\sqrt{}$							

-Course coordinator:

Prof. Dr. Ahmed Abdel-Rahman Kassab

-Program coordinator: Prof. Dr. Mahmoud Abouelroos