Specification for Anatomy (D)
2025/2026

1-Basic information

1.	**Course title**	Anatomy (D)							
2.	**Course code**	**ANE.228**							
3.	**Department offering the course**	Anatomy and embryology							
4.	**Number of hours**	**Theoretical**	1	Practical	1(2)	Other	0	Total	2(3)
5.	**Course Type**	√ **Obligatory** **Elective**							
6.	**Level**	2nd year							
7.	**Semester**	Spring semester							
8.	**Academic program**	Bachelor of Veterinary Medicine (BVM)							
9.	**Faculty**	Faculty of Veterinary medicine							
10.	**University**	Benha University							
11.	**Name of course coordinator**	Prof. dr. Hatem Bahgaat Houssainy							
12.	**Course Specification Approval Date**	Faculty council/ 27-8-2025							
13.	**Course Specification Approval (Attach the decision/minutes of the department /committee/council ....)**	Department council/ 8-7-2025							

2-Course overview

- **Course contents written in the program bylaw:**

Respiratory system, nervous system, special Embryology, skull anatomy and dissection of head and neck

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

	(NARS) outcomes		Course ILOS	
	Code	**Content**	**Code**	**Content**
Knowledge and			a1	Depict a concise knowledge about the anatomy of nervous system of different animal species
			a2	illustrate a concise knowledge about the anatomy of upper

understanding	2.3	Normal macro and micro-structure of body tissues, organs and systems of animals, birds and fish.		respiratory and upper digestive systems of different animal species
			a3	Describe the anatomical features and branches of nervous system of different domestic animals
			a4	mention a comprehensive knowledge about the nervous, upper respiratory, upper digestive systems and comparative anatomy among different domestic animals and special embryology
			a5	Mention the principles comparative anatomy of the skull and muscles of the head and neck
			a6	Identify a concise knowledge about special embryology
Intellectual skills	4.1	Foster critical thinking and scientific curiosity.	b1	Illustrate the different features of nervous, upper respiratory and upper digestive systems in the animals' species
			b2	Evaluate the skills of dissection of the head and neck
			b3	Compare the types of the skull in the different animal species
			b4	Inspect of the origin and insertion of different skeletal muscles of the head and neck
			b5	Determine the primordial origin of the different body systems and organ
Professional and practical skills	3.1	Employ all the gained knowledge and understanding in clinical practice in a skillful pattern.	c1	Measure the professional capability to dissect the head and neck
			c2	Measure the professional capability to identify the shape of the skulls of different domestic animals
			c3	Evaluate the skills to compare between bones of the skull of different domestic animals
			c4	Evaluate the skills to compare between organs of nervous upper respiratory and upper digestive systems of different domestic animals
			c5	Evaluate the skills to determine the

				primordial origin of the different body systems and organs
	D			
General and transferable skills	5.1	Work under pressure and / or contradictory conditions.	d1	Work under pressure during anatomy lab session
	5.2	Function in a multidisciplinary team.	d2	Communicate effectively with lab collage
	5.5	Search for new information and technology as well as adopt life–long self learning ethics.	d3	Search for new information and technology
	5.6	Utilize computer and internet skills	d4	Utilize computer and internet skills

4- Teaching and learning methods					
Lectures	√	**Discussion & seminar**	√	**Practical**	√
Presentation & movies	√	**Problem solving**	√	**Brain storming**	√
Others	Simulation and role play				

- Course contents:

Number of the Week	**Scientific content of the course (Course Topics)**	**Expected number of the Learning Hours**				
		Total Weekly hours	**Theoretical teaching (lectures/discussion groups/ .....)**	**Training (Practical/ Clinical/ .....)**	**Self-learning (Tasks/ Assignments/ Projects/ ...)**	**Other**
W1	Upper digestive System1	**2(3)**	**1**	**0**		**0**

	Skull Anatomy1		**0**	**1(2)**		
W2	Upper digestive System2	**2(3)**	**1**	**0**		**0**
	Skull Anatomy1		**0**	**1(2)**		
W3	Upper Respiratory System1	**2(3)**	**1**	**0**	**Formative quiz**	**0**
	Skull Anatomy1		**0**	**1(2)**		
W4	Upper Respiratory System2	**2(3)**	**1**	**0**		**0**
	Dissection of the Head		**0**	**1(2)**		
W5	Nervous System1	**2(3)**	**1**	**0**		**0**
	Dissection of the Head		**0**	**1(2)**		
W6	Nervous System2	**2(3)**	**1**	**0**	**Formative quiz**	**0**
	Dissection of the Head and neck		**0**	**1(2)**		
W7	Semester work including 1hr exam	----------				
W8	Nervous System3	**2(3)**	**1**	**0**		**0**
	Dissection of the Head and neck		**0**	**1(2)**		
W9	Nervous System4	**2(3)**	**1**	**0**	**Formative quiz**	**0**
	Dissection of the Head and neck		**0**	**1(2)**		
W10	Special Embryology1	**2(3)**	**1**	**0**		**0**
	Dissection of the Head and neck		**0**	**1(2)**		
W11	Special Embryology2	**2(3)**	**1**	**0**		**0**
	Dissection of the Head and neck		**0**	**1(2)**		
W12	Special Embryology3	**2(3)**	**1**	**0**	**Formative quiz**	**0**
	Dissection of the Head and neck		**0**	**1(2)**		
W13	Special Embryology4	**2(3)**	**1**	**0**		**0**
	Dissection of the Head and neck		**0**	**1(2)**		
W14	Special Embryology5	**2(3)**	**1**	**0**		**0**
	Dissection of the Head		**0**	**1(2)**		

	and neck					
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, 1hr exam, practical exam, oral exams and final written exams).

b- Assessment schedule and weight

Assessment method	Timing	Grade	Percent
Semester work (1hr exam)	7th week	10	10%
Formative assessment	Throughout the semester	----------	----------
Practical exam	15th 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:

Learning resources	**Main reference**	**Student handbook**: department note
	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. • Klaus-Dieter Budras (2011) Bovine Anatomy • G. E. Abdelhakim (2009) Atlas Anatomy of The Horse • K.S. Roy (2009) foundation of veterinary embryology • Thomas O. Mccracken (2008) color atlas of small animal anatomy: the essentials • Course note • Klaus-Dieter Budras (2011) Bovine Anatomy • Thomas O. Mccracken (2008) color atlas of small animal anatomy: the essentials.
	Periodicals, Web	• Acta Anatomica. • Equine Veterinary journal

	sites, . . . etc	• American Journal of Veterinary Anatomy • American Journal of Veterinary Research • Veterinary Record • www.ekb.eg
	Learning platform	Thinqi
supportive facilities	**Devices & instruments**	1. Data show 2. White board 3. Anatomy laboratory 4. Phantoms and models for different organs and bones 5. Carcasses for dissection and demonstration 6. Anatomy museum or anatomy skill lab. 7. Stereo Microscope 8. Light Microscope

Matrices:

A- Content and ILOs matrix:

B- Topic	A) Knowledge and understanding	B) Intellectual skills	C) Professional and practical skills	D) General and transferable skills
Upper Respiratory System	a1, a3,a4	b1	c4	d1 to d4
Upper Digestive System	a2, a4	b1	c4	d1 to d4
Nervous System	a2, a3,a4	b1	c4	d1 to d4
Special Embryology	a6	b5	c5	d1 to d4
Skull Anatomy	a5	b2,b3	c2,c3	d1 to d4
Dissection of the Head and Neck	a5	b2, b4	c1	d1 to d4

B- Teaching and learning and assessment methods:

ILOs		Teaching and Learning method							
		L	P&M	D&S	P	Ps	Bs	S	Rp
Knowledge and understanding	a1	√				√			√
	a2	√				√			
	a3	√				√			
	a4	√				√			
	a5	√				√			√

	a6	√				√			√
Intellectual skills	b1	√							
	b2	√							√
	b3	√							√
	b4	√							√
	b5	√							√
al and practical	c1				√				√
	c2				√				√
	c3				√				√
	c4				√				√
	c5				√				√
General skills	d1	x		√			√	√	
	d2	√			√	√		√	√
	d3	√						√	√
	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	Semester 1hr exam	oral	practical	written
Knowledge and understanding	a1		√	√		√
	a2		√	√		√
	a3		√	√		√
	a4		√	√		√
	a5		√	√		√
	a6		√	√		√
Intellectual skills	b1	√	√	√		√
	b2	√	√	√		√
	b3	√	√	√		√
	b4	√	√	√		√
	b5	√				
Professional and practical skills	c1				√	
	c2				√	
	c3				√	
	c4				√	
	c5					
General skills	d1			√		
	d2			√		
	d3			√		
	d4			√		

Course coordinator: Dr. Hatem Bahgaat Houssainy

Head of department Prof. Dr. Ahmed Abdel-Rahman Kassab

Program coordinator: Prof. Dr. Mahmoud Abouelroos