***College: veterinary medicine***

***Department: anatomy***

***Stage: first***

***Republic of Iraq***

***Ministry of Higher Education and scientific research***

***University of Baghdad***

***Quality Assurance and Academic***

***Performance Department***

**Course Syllabus**

**Anatomy for first class**

**Name of the First Teacher of the Course: Shakir Mahmood Mirhish**

**Accademic Rank: Professor**

**Degree: PhD**

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**Name of the Second Teacher of the Course: Fadihil Sabah Mohammed**

**Accademic Rank: Assist. Professor**

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| **Anatomy for first class** | | | | | **Course Title** | |
| **Annual**  X | | **Semester System** | | | **Academic System** | |
| **To teach the gross anatomy of the domestic animals and birds to the undergraduate students (first class)** | | | | | **Course Objectives** | |
| **By Robert Getty A Text Book of Veterinary Anatomy** | | | | | **Textbooks** | |
| **\* Molgaard. 1999. Veterinarian Anatomy and Physiology. Delmar**  **Publishers, USA**.  **\*Gillospie and Gillospie. 1998. Animal Science Anatomy and**  **Physiology. Dolmar Publishers, U.K.**  **\*Haward E., E. D. Alexander. 2000. Guide to the Dissection of the**  **Dog. W.B Saunders Co. USA.**  **\*Miller, M.E., 2000. Guide to the Dissection of the Dog. Ithaca, New**  **York. Litho Printed by Edwards Brothers, Ind. Ann Arbor, USA** | | | | | **Reference Books** | |
| **End Semester Examination** | **Project** | **Quizzes** | **Laboratory work** | **Theoretical Content Exam** | **Course Assessment for Semester System**  **(100%)** | |
|  |  |  |  |  |
| **Final Examination** | **Laboratory Work** | **Second Term** | **Midterm Exam** | **First Term** | **Course Assessment for Annual System**  **(100%)** | |
| **50** |  | **25** |  | **25** |
|  | | | | | | **Additional Information** |

**Weekly Schedule**

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| **Notes** | **Laboratory Work** | **Theoretical Content** | **Week** |
|  | Bones of thoracic limb &joints, scapula of horse & comparative anatomy | **Introduction**, anatomy & methods of study,  topographic terms & nomenclatures | **1** |
|  | Humerus & comparative anatomy | **General Osteology**: skeleton, structure of the bone, development & growth of the chemical & physical properties of bone, | **2** |
|  | Radius & ulna with comparison | **General Osteology**: the vertebral column, ribs, sternum, bones of thoracic & pelvic limbs | **3** |
|  | Carpal, metacarpal & phalanges in horse | **Myology**: types of muscles with structures, shape of skeletal muscles, action of skeletal muscles | **4** |
|  | Circulatory system: pericardium, heart, chambers of heart, major vessels of the heart | **Myology**: accessory structures associated with skeletal muscles, vessels & nerve supply muscles | **5** |
|  | Muscles of the shoulder girdle of the sheep | **General Syndesmology (arthrology):** fibrous joint, cartilaginous joints, synovial joints | **6** |
|  | Lateral surface of shoulder & arm muscles in sheep | **General Syndesmology (arthrology):** joints of the thoracic limb, | **7** |
|  | Dissection of intrinsic muscles of shoulder & arm | **General Syndesmology (arthrology):** joints of pelvic limb | **8** |
|  | Muscles of the forearm & manus (extensor & flexor) | **Common integument:** foot of the horse, hoof | **9** |
|  | Arteries & nerves of the thoracic limb in sheep | **Common integument:** stay apparatus of the thoracic limb | **10** |
|  | Thoracic & lumbar vertebrae, sacrum in horse | **Cardiovascular system (heart & arteries):** arteries, aorta, ascending aorta, Brachiocephalic trunk, descending aorta, thoracic aorta (branches), abdominal aorta (branches),Introduction, heart & pericardium, pericardium, the size, position shape & location of the heart, grooves of the heart, left & right atria, left & ventricles, blood supply of the heart, nerve supply of the heart, | **11** |
|  | Ribs & sternum in horse | **Cardiovascular system (heart & arteries):** | **12** |
|  | The hoof in horse, foot of the ox | **Cardiovascular system (heart & arteries):** blood supply of thoracic limb, blood supply of the hind limb | **13** |
|  | Review | **Mammary gland:** Embryological development of the mammary gland, types of mammary gland, its location in domestic animals, glandular structure, ducts of the mammary gland, suspensory ligament of udder, blood & nerve supply of the udder | **14** |
|  | Practical examination | **Examination** ducts of the mammary gland, suspensory ligament of udder, blood & nerve supply of the udder | **15** |
|  | Comparative anatomy of the pelvic bone | **Urinary system:** Introduction, parts of the urinary system & it’s connections with the genital system, shape of kidney in domestic animals (comparison), | **16** |
|  | Comparative anatomy of the femur | **Urinary system:** classification of kidneys in domestic animals, location of kidney with its fixation (ligaments) in domestic animals, blood & venous drainage of kidney, nerve supply of kidney | **17** |
|  | Comparative anatomy of the tibia & fibula | **Urinary system:** ureter, urinary bladder with its ligaments, urethra, peritoneal reflections in the pelvic cavity of male & female | **18** |
|  | Tarsal & metatarsal bones in horse | **Male genital system:** Introduction, development of organ of the system, testis, structure of the testis, | **19** |
|  | Muscles of the lion, hip & thigh in sheep | **Male genital system:** comparative of the testis in domestic animals, blood & nerve supply, epididymis, ductus deference | **20** |
|  | Flexor & extensor muscles of the pelvic limb in sheep | **Male genital system:** spermatic cord, tunica vaginalis, mesorchium, the scrotum, structure of the penis, glans penis, muscle of the penis blood & nerve of penis, prepuce | **21** |
|  | Arteries & sacrolumbar plexus & nerves of the pelvic limb | **Male genital system:** accessory genital glands, vesicular gland, prostate gland, bulbouretheral gland | **22** |
|  | Inguinal region & mammary gland in sheep | **Female genital system:** Introduction, development of female genital system | **23** |
|  | Urinary system (kidneys, ureter & urinary bladder) | **Female genital system:** ovary: types, position in domestic animals, | **24** |
|  | Female reproductive system in sheep (ovaries, uterine tube & uterus) | **Female genital system:** uterine tube, uterus (comparison), vagina, vestibule | **25** |
|  | Male reproductive system in sheep (testis & scrotum) | **Female genital system:** female urethra, sub urethral diverticulum, broad ligament | **26** |
|  | Penis & accessory sex glands | **Female genital system:** anatomical relationship between rectum & female genital system, vulva, clitoris | **27** |
|  | Muscles of the lions, hip & thigh in sheep | **Endocrine gland:** Pituitary gland (hypophysis), thyroid gland | **28** |
|  | Review | **Endocrine gland:** parathyroid gland, adrenal gland, pineal body | **29** |
|  | Practical examination | **Examination** | **30** |
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