

AVIAN ANATOMY AND PHYSIOLOGY SYLLABUS 2013

Welcome to Avian Anatomy and Physiology (PO 4844/6844). Lectures for this class will be held on Monday, Wednesday, and Friday at 11:00 am and the laboratory will meet on Wednesday at 1:00 pm.

The attendance policy for the lecture will allow you three absences; absences that exceed 3 can reduce your final grade up to 2.5%. The lab attendance policy will allow you one absence, absences that exceed the first can reduce your final grade up to 2.5%. Roll will be taken at the beginning of each class (lecture and lab). The door for the class room will be closed at 11:00 for lecture and 1:00 for lab once the door is closed you are considered tardy and will not be counted as attending for the class period. If you have a class on the other side of campus immediately before this class which may cause you to be late please notify me following the first class meeting of the semester. There will be no make up for the labs that are missed or ten minute quizzes that are missed.

During lecture and lab you are expected to be considerate of the others around you, so there will be no talking during class. Talking is grounds for dismissal from the class. **THERE WILL BE NO CELLPHONE USE OF ANY KIND DURING LECTURE OR LAB.** This is a University policy and will be adhered to closely. Anyone using a cell phone during class will be asked to leave and counted absent for the day.

The lecture grade and the lab grade will be combined for an overall grade for each unit. The exams are scheduled for weeks 5, 11 and 15. These three unit scores will comprise 60% (20% per exam) of the final grade. Unscheduled daily quizzes and laboratory reports will comprise 10% and the remaining 30% of the final grade will be the comprehensive final exams. The grading scale will be 10 point.

Graduate students will be required to write a literature review on one of the main topics discussed in class. The graduate students will then present this information before the class in the form of a 15-20 minute oral presentation. The written and oral presentation will each count 7.5% of the final grade, three unit scores will compromise 45% (15% per exam) of the final grade. Unscheduled daily quizzes will compromise 10% and the remaining 30% of the final grade will be the comprehensive final exams. The grading scale is as follows:

A = 90 to 100%

B = 80 to 89%

C = 70 to 79%

D = 60 to 69%

F = <60%

The laboratory is arranged in work stations numbered 1-6. Each group will claim a work station for the entire semester. You are responsible for keeping your work area and your utensils clean and in good working order. Table protectors, aprons and disposable gloves will be provided. The following rules are enforced:

- 1) No eating or drinking.
- 2) Lab partners may share a bird but individual work is required when writing reports.
- 3) Use the protector pads to keep the work area clean.
- 4) Counter tops, floors and walls must be washed, clean and inspected at the end of the lab time.
- 5) Stay in your work area and do not leave class until dismissed. If you cannot stay at your work station you will be asked to leave class and be counted absent for the day.
- 6) There will be **ABSOLUTELY** no tobacco in the classroom.
- 7) No open toes shoes or flip flops are allowed in lab.

Cheating of any kind will not be tolerated and will be dealt with according to the University's policy for academic dishonesty.

My office is located in room 211 of the Hill Poultry Science Building. My office phone number is 325-3385. If I am not in, leave a message on my voice mail or email me at akiess@poultry.msstate.edu.

Topics of Discussion	Date	Contact Hours Lecture/ Lab
Introduction to Avian Physiology	01/07/13	1 hour
The Cell: Morphology	01/09/13	1 hour / 2 hours
The Cell: Structure and Components Within	01/11/13	1 hour
Avian Blood: Function	01/14/13	1 hour
Avian Blood: The different Cell Types	01/16/13	1 hour / 2 hours
The Reticuloendothelial System: Macrophages	01/18/13	1 hour
Holiday (Martin Luther King, jr. Day)	01/21/13	0 hours
The Reticuloendothelial System: Leukocytes, Phagocytes and Inflammation	01/23/13	1 hour/ 2 hours
The Immune System: Humoral Immunity	01/25/13	1 hour
The Immune System: Cell Mediated Immunity	01/28/13	1 hour
The Immune System: Humoral and Cell Mediated Immunity	01/30/13	1 hour
Osteology: Formation and Organization of Bones	02/01/13	1 hour
Osteology: Classification and Abnormalities	02/04/13	1 hour
Arthology: Joints, Tendons, and Ligaments	02/06/13	1 hour / 2 hours
TEST #1	02/08/13	1 hour
Integument: Layers of the Skin	02/11/13	1 hour
Integument: Scales and Nails	02/13/13	1 hour / 2 hours
Integument: Feathers	02/15/13	1 hour
Myology: Skeletal Muscles	02/18/13	1 hour
Myology: Smooth Muscles	02/20/13	1 hour / 2 hours
Myology: Cardiac Muscles	02/22/13	1 hour
Neurology: The Brain and its Sections	02/25/13	1 hour
Neurology: Neurons, Synapse, and Electrical Transmission	02/27/13	1 hour / 2 hours
Neurology: Nerves	03/01/13	1 hour
The Respiratory System: Anatomy	03/04/13	1 hour
The Respiratory System: Respiration and Gaseous Exchange	03/06/13	1 hour / 2 hours
The Respiratory System: Respiration and Gaseous Exchange	03/8/13	1 hour
No Class (Spring Break)	03/11/13	0 hours
No Class (Spring Break)	03/13/13	0 hours
No Class (Spring Break)	03/15/13	0 hours
Circulatory System: Compartments and Components of the Heart	03/18/13	1 hour
Circulatory System: Identification of Arteries	03/20/13	1 hour / 2 hours
TEST #2	03/22/13	1 hour
Circulatory System: Identification of Veins	03/25/13	1 hour
The Cardiovascular System: Heart Contractions & Nervous Regulation	03/27/12	1 hour / 2 hours
No Class (Good Friday)	03/29/13	0 hours
The Cardiovascular System: Electrical conductivity	04/01/13	1 hour
The Cardiovascular System: Arterial Blood Pressure	04/03/13	1 hour / 2 hours
The Excretory System: Introduction to Excretion	04/05/13	1 hour
The Excretory System: The Nephron of the Kidney	04/8/13	1 hour
The Excretory System: Nasal Salt Glands	04/10/13	1 hour / 2 hours
The Endocrine System: Introduction to Glands	04/12/13	1 hour
The Endocrine System: Hypothalamic Hypophyseal Region	04/15/13	1 hour
The Endocrine System: Hormones of all other Endocrine Glands	04/17/13	1 hour / 2 hours
TEST #3	04/19/13	1 hour
Student Presentations	04/22/13	1 hour
Review for the Final Exam	04/24/13	1 hour
Final Exam	04/29/13 : 05/03/13	3 hours