

**Instructors:**

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**Meeting times:** Lecture (212 Animal Sciences Building): mornings from 8:00 to 12:00; Laboratory (203 Animal Sciences): afternoons from 1:00 to 5:00.

**Exams and quizzes:** One quiz and one exam in lecture *each week* (Wednesday and Friday, respectively). One laboratory exam will be given the second Friday following the 2<sup>nd</sup> lecture exam.

<b>Grading:</b>	Lecture exams 2 @ 150 points each	300 points
	Quizzes 2 @ 50 points each	100 points
	Lab exam 1 @ 100 points	<u>100 points</u>
	Total:	500 points

**Wednesday Speakers:** Each Wednesday afternoon we will meet for pizza and meet an industry representative. Come prepared to enjoy the food, get to know each other, ask questions, discuss, and participate! Specific details will be announced during class.

**Remember:** We are here to help you learn and to help you become prepared for a career, wherever that path takes you. This course is intense and sets the groundwork for all others that follow. The more you apply yourselves in physiology, the easier the others will be!

**Schedule of Lectures and Laboratories for Avian Physiology 503**

<u>Date</u>	<u>Lecture topic</u>	<u>Instructor</u>	<u>Lab topic</u>	<u>Instructors</u>
<b>Monday, 21 May</b>				
	Integument	S. Hester	Introduction	M. Berres
	Skeleton	S. Hester	Anatomy	S. Hester
	Muscles	M. Berres	Bird handling (PRL)	
			Skeletal diagnosis (computer lab)	
			NEW LAB: Oligozaugodactyly:	
			Molecular diagnosis and limb mutations	
<b>Tuesday, 22 May</b>				
	Nervous system	S. Hester	Anatomy	M. Berres
	Special senses	S. Hester	Blood collection	S. Hester
			Quail necropsy	
			NEW LAB: Oligozaugodactyly:	
			Molecular diagnosis and limb mutations	
<b>Wednesday, 23 May</b>				
<b>*** QUIZ 1</b>				
	Cardiovascular	S. Hester	EKG	M. Berres
	Respiration	S. Hester	Blood (hematocrit)	S. Hester
	Renal function	S. Hester	NEW LAB: Oligozaugodactyly:	
			Molecular diagnosis and limb mutations	

***Afternoon pizza and industry representative 5:00 pm in 212 Animal Sciences***

<u>Date</u>	<u>Lecture topic</u>	<u>Instructor</u>	<u>Lab topic</u>	<u>Instructor</u>
<b>Thursday, 24 May</b>				
	Acid-base	S. Hester	Calorimetry	M. Berres
	Alimentary system	S. Hester	<i>Hormone injections (1)</i>	S. Hester
<b>Friday, 25 May</b>				
<b>*** EXAM 1</b>				
	Parathyroid/Calcium	M. Berres	Hb agglutination	M. Berres
			<i>Hormone injections (2)</i>	
<b>*** Saturday, 26 May</b>				
		<i>Students</i>	<i>Hormone injections (3)</i>	<i>Students</i>
<b>*** Sunday, 27 May</b>				
		<i>Students</i>	<i>Hormone injections (4)</i>	<i>Students</i>
<b>Monday, 28 May</b>				
	Lymphatic system,	G. Fraley	<i>Hormone injections (5)</i>	G. Fraley
	Immune system		Tonic immobility	M. Berres
			Somatosensory	
<b>Tuesday, 29 May</b>				
	Endocrinology, stress,	G. Fraley	Glucose tolerance	G. Fraley
	hypothalamic-pituitary-adrenal axis			M. Berres
<b>Wednesday, 30 May</b>				
<b>*** QUIZ 02</b>				
	Sex determination/differentiation	G. Fraley	Female Anatomy	M. Berres
	Female Reproduction	M. Bakst	Yolk Formation	G. Fraley
			Hormone Assay	

***Afternoon pizza and industry representative 5:00 pm in 212 Animal Sciences***

<b>Thursday, 31 May</b>				
	Male Reproduction	M. Bakst	Semen Collection	M. Berres
	Fertility		Semen Evaluation	M. Bakst
			Testis Histology	
			Sperm Holes	
<b>Friday, 01 June</b>				
<b>*** EXAM 2</b>				
<b>*** LABORATORY PRACTICAL EXAM</b>				
<b>Evaluations</b>				