BIOLOGY 276 – COMPARATIVE VERTEBRATE ANATOMY
A.K.A. "EVOLUTION OF VERTEBRATE LIFE"

Summer Session I 2009 Course Information:
The *official* course description: *A "history" of the human body with emphasis on evolutionary history of vertebrates and anatomical evolution of organ systems*.

What this course is really about: A study of the anatomical and functional attributes of vertebrates in the context of evolution. The first quarter of the course will focus on the origin of vertebrates, the phylogenetic relationships of major vertebrate taxa, and the anatomy and ontogeny of "typical" vertebrates. In the remaining ¾ of the course, the anatomy and organization of select body systems will be examined and interpreted in terms of their embryology, phylogeny, and functional adaptations.

Lecture: M-F at 11-12:30 in Mitchell Hall 05

Laboratory: NOT a co-requisite.: MTR 8am or 1pm in Wilson 112.

Prerequisites: BIOL 101 & 101L**.**
Also useful: BIOL 252. Having taken 252 will make life a lot easier.

About your Instructor:
Dr. Corey Johnson (johnsonc@med.unc.edu).
I received my Ph.D. in Cell & Developmental Biology from the UNC Medical School in where I studied anatomy and embryology. I have been teaching in the Biology department since 2005, having taught BIO 205, 252, 276, and 441. I also teach human gross anatomy in the medical school.

Feel free to contact me by email. I'm difficult to reach by phone so don't bother. I am 100% committed to being available to answer questions or explain difficult material. If you need help in understanding anything, please stop by my office for help. My office hours will be from 9-11am Mondays and Fridays. I will meet anytime outside of those hours (by appointment) for those who cannot make it during regular office hours.

Textbook:
Not required, but recommended. *Functional Anatomy of the Vertebrates,* by Liem et al., *Third Edition*. ISBN: 0030223695. The 2nd edition, though not nearly as good, can still be found if your budget is tight.

Philosophy of grading:
I believe strongly in offering a difficult course that challenges the student. The student who receives an A will have mastery of the subject matter. The testing for this course will be based on the lectures. The most successful students always read and study the text.

Grading policy and other information:
Outside of lecture, I will make any important information known through the 'announcements' section of Blackboard. Grades will be posted to blackboard as soon as they are available after exams. Your grade for this course will be determined by 4 non-cumulative exams.

Exams (2): Each exam will be 50**%** of your final grade.

Grading scale:

93-100	A	87-89	B+	77-79	C+	67-69	D+
90-92	A-	83-86	B	73-76	C	60-66	D
		80-82	B-	70-72	C-		

Combined Lecture/Lab Schedule

		Lecture	**Lab**
Tues	12	Intro; Origin of Vertebrates	
Wed	13	Chordates	
Thur	14	Major Vertebrate Groups	Protochordates, Lamprey
Fri	15	Embryology	
Mon	18	Integument	Skull
Tues	19	The Skull	Skull, Axial Skeleton
Wed	20	Axial Skeleton	
Thur	21	Appendicular Skeleton	Appendicular skeleton
Fri	22	**Midterm Exam**	
Mon	25	**Holiday**	
Tues	26	Locomotion/flight	**Exam I**
Wed	27	Muscular System I	
Thur	28	Muscular System II	Muscular System I:Shark
Fri	29	Catch-up	
Mon	1	Feeding Systems	Muscular System II: Axial
Tues	2	Digestive System	Muscular System III: Appendicular
Wed	3	Respiratory System	
Thur	4	Circulatory	**Exam II**
Fri	5	Excretory	
Mon	8	Reproductive System I	Digestive/Respiratory system
Tues	9	Reproductive System II	Circulatory
Wed	10	Nervous System	
Thur	11	Nervous Sys./Sensory Organs	Urogenital
Fri	12	**Lab Exam III**	
	15or16	**Final Exam**	