

Zoology 430 - Comparative Anatomy of Vertebrates

Fall 2013 Lecture Outline

Professor: Robert Bleiweiss **Office:** 441 Birge Hall **Hours:** By appointment, Birge 441.
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| <i>Week</i> | <i>Date</i> | <i>Lectures</i> | <i>Reading*</i> |
|-------------|--------------------------|---|--------------------------------|
| 1 | T Sept. 3 R Sept. 5 | Basic Concepts Vertebrate relationships and diversity | Chapters 1, 2 Chapters 2, 3 |
| 2 | T Sept. 10 R Sept. 12 | Embryology Organogenesis | Chapters 5 Chapters 5 |
| 3 | T Sept. 17 R Sept. 19 | Composite skull, Neurocranium History of armor, Dermatocranium | Chapter 7 Chapters 6, 7 |
| 4 | T Sept. 24 R Sept. 26 | Visceral skeleton and Splanchnocranium 4-week exam (in class) | Chapter 7 |
| 5 | T Oct. 1 R Oct. 3 | Axial skeleton begun Axial skeleton completed | Chapter 8 Chapter 8 |
| 6 | T Oct. 8 R Oct. 10 | Appendicular skeleton Muscles begun | Chapter 9 Chapter 10 |
| 7 | T Oct. 15 R Oct. 17 | Muscles completed Introduction to circulatory system | Chapter 10 Chapter 12 |
| 8 | T Oct. 22 R Oct. 24 | Heart and aortic arches to lungfish 8-week exam (in class) | Chapter 12 |
| 9 | T Oct. 29 R Oct. 31 | Heart and aortic arches to amniotes Venous system begun | Chapter 12 Chapter 12 |
| 10 | T Nov. 5 R Nov. 7 | Venous system and fetal circulation Introduction to mammalian nervous system | Chapter 12 Chapter 16 |
| 11 | T Nov. 12 R Nov. 14 | Mammalian spinal and autonomic systems Evolution of spinal nervous system | Chapter 16 Chapter 16 |

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| 12 | T Nov. 19 R Nov. 21 | 12-week exam (in class) Cranial nerves begun | Chapter 16 |
| 13 | T Nov. 26 | Cranial nerves completed | Chapter 16 |
| <i>Thanksgiving Recess Nov. 27 - Dec. 1</i> | | | |
| 14 | T Dec. 3 R Dec. 5 | Brain structure and function Urogenital system begun | Chapter 16 Chapter 14 |
| 15 | T Dec. 10 R Dec. 13 | Urogenital system completed 15-week exam (in class) | Chapter 14 |

****Required:** Kardong, Kenneth V., and Zalisko, E. J. 2012. *Comparative Vertebrate Anatomy: A Laboratory Dissection Guide*. 6th ed. Available at University Book Store, State Street.

***Recommended:** Kardong, Kenneth V. 2012. *Vertebrates: Comparative Anatomy, Function, Evolution*. 6th Edition. Available at University Book Store, State Street (bound text) or as e-book (see below).

To purchase the text as (much cheaper) e-book, go to and purchase directly from this link:

<http://www.chegg.com/textbooks/vertebrates-comparative-anatomy-function-evolution-6th-edition-9780073524238-0073524239?trackid=7f94d78f&autosuggest=1&uqry=kardong&ii=1>

Buying the text can significantly improve your performance on exams.

Additional Aids: Lectures will be posted on course [Learn@UW](#) site. Site will post lectures a few days ahead so you can download and print your own copies before class. Notes are provided for your convenience but are not a substitute for class attendance. It's a good idea to bring appropriate handouts/overheads to every class.

Course Structure: Exams will emphasize material from lecture. Make-up exams will not be offered unless you were sick.

Grading: Four lecture exams, @ 150 points each. Lecture exam questions will be multiple choice. Your final course grade will be based on your % out of 1200 points (600 each for lecture and lab). The grading scale in this class is not fixed (no curve) and varies from year to year. In previous years, grades tended to break down as follows: A = above 87%; AB = above 84%; B = above 78%; BC = above 73%; C = above 60%.

We do consider special circumstances, such as evidence for improvement.