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## Herpetology

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Syllabus Biol. 583/783 (Lecture; line numbers: 43255/43306); Biol. 418/701 (Lab)  
Fall 2008

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**Lectures: 9:30–10:50 am, Tues/Thur.**

**Place: 320 Dyche**

**Professor:** Dr. Rafe Brown e-mail: [rafe@ku.edu](mailto:rafe@ku.edu)

417C, Dyche Hall; Phone: 864.3403 (O); Office Hours by appointment.

**Lab: 3:00–5:00 pm, Tuesday**

**Place: 320 Dyche**

**TA:** Mr. Jeet Sukumaran e-mail: [jeet@ku.edu](mailto:jeet@ku.edu)

417 Dyche Hall; Phone: 864-4556;

**Text Book:** Zug, G. R., L. J. Vitt, and J. P. Caldwell. 2001. *Herpetology. An Introductory Biology of Amphibians and Reptiles*. 2<sup>nd</sup> Edition. Academic Press. 630 pp. ISBN 0-12-782622-X

Additional

Reading: Powell, R., J. Collins, and J. Hooper. 1998. A key to the Amphibians and Reptiles of the Continental United States and Canada. University of Kansas Press. **Highly Recommended!**

Pough, F. H., et al. 2003. *Herpetology, 3<sup>rd</sup> edition*. Prentice Hall. Upper Saddle River, New Jersey. 577 pp. ISBN 0-13-850876-3. **Good Reference Material.**

Duellman, W. E., and L. Trueb. 1986. *Biology of Amphibians*. The Johns Hopkins University Press. Baltimore, Maryland. 670 pp. ISBN 0-8018-4780-X. **Good Reference Material.**

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### ADDITIONAL INFORMATION

This year “Herpetology” comprises two classes: a 3-hr. lecture section (Biol. 583/783, Dr. Rafe Brown) and a 2-hr. lab section (Biol. 418/701, led by Teaching Assistant Jeet Sukumaran). Attendance is mandatory in both classes in which students are registered students (see Expectations, below). We strongly recommend that all students taking lecture also register to take the lab portion of the class. We realize this simply may not be possible for some students however, serious students, with genuine interest in Herpetology will profit greatly from the combination of the two classes. In future years the lab portion of the class will probably be required.

The Herpetology Lecture portion of the class will consist of two lectures (9:30–10:50, Tues/Thurs.) by Dr. Brown; Herpetology Lab meetings will usually begin with short commentary or orientation on the subject matter, accompanied by examination of specimens, with exercises and instruction provided by Mr. Sukumaran and/or Dr. Brown.

### REQUIRED TEXT

Lecture Text: The text book for the class will be *Herpetology: An Introduction to the Biology of Amphibians and Reptiles, 2<sup>nd</sup> edition* by George Zug, Laurie Vitt, and Janalee Caldwell (2001:

Academic Press; ISBN: 1-12—782622-X). Other texts are available in the library and will be available in lab. New and used copies are available at Amazon.com and other on-line book retailers.

Laboratory: Powell, R., J. Collins, and J. Hooper. 1998. A key to the Amphibians and Reptiles of the Continental United States and Canada. University of Kansas Press.

### IMPORTANT DATES

**Aug. 21:** First day of classes

**Sept. 1:** Labor Day – no classes

**Sept. 6:** Last day of first period drop transactions

**Sept. 15:** Last day to drop a class online

**Sept. 19:** First day to elect Credit/No Credit grade option for undergraduates

**Oct. 2:** Last day to elect Credit/No Credit grade option for undergraduates

**Oct 16–19:** fall break

**Nov. 17:** Last day to drop a 15-week course

**Nov. 26–30:** Thanksgiving break

**Dec. 11:** Last day of classes

**Dec. 12:** Stop day

**Dec 15–19:** finals

### DISABILITIES

Any student with a disability who believes he/she needs accommodations in order to complete this course should contact the Office of Disability Resources (22 Strong Hall, 785-864-2620) and the instructor of this class immediately to be eligible for special considerations.

Your Performance Evaluation in **Lecture** will be based on the following:

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1 <sup>st</sup> Midterm Examination .....	25%
2 <sup>nd</sup> Midterm Examination .....	25%
Final Examination .....	40%
Class Participation .....	10%



(Content up to 12 Sept.)

*Tues., 30 Sept.*

Reptile Morphology

The Crocodylians: Chapter 2:45–76, Chapter 19:457–564, & Chapter 20:465–466

**Lab: Lab practical (amphibian families; 20% of grade)**

*Thurs., 2 Oct.*

Turtles: Chapter 18:435–464

*Tues., 7 Oct.*

*Sphenodon* + Squamates I. Lizards: Chapter 20:467–503

**Lab: Turtles (families) and Crocodiles families and genera**

*Thurs., 9 Oct.*

Squamates II. Lizards: Chapter 20:467–503

*Tues., 14 Oct.*

Squamates III. Snakes: Chapter 21:503–531

**Lab: Lizards (families)**

*Thurs., 16 Oct.*

**FALL BREAK – no class**

*Tues., 21 Oct. NSF PANEL*

Squamates IV. Snakes: Chapter 21:503–531

**Lab: Snakes (families)**

*Thurs., 23 Oct.*

Recap and Discussion of Reptilian Systematics  
Questions & Discussion

You ask and we answer.

*Tues., 28 Oct.*

**2<sup>nd</sup> Midterm Examination**

**Lab: Amphibian genera of North America**

We ask and you answer.

*Thurs., 30 Oct.*

Amphibian Reproduction: Chapter 4:107–153

*Tues., 4 Nov.*

Reptile Reproduction: Chapter 4:107–153

**Lab: Lab Practical exam II (Reptile families; 20% of grade)**

*Thurs., 6 Nov.*

Communication & Social Behavior in Amphibians and Reptiles: Chapter 9:221–248

*Tues., 11 Nov.*

Feeding and Prey & Enemies and Defense: Chapter 10:249–273 & Chapter 11:275–298

**Lab: Turtle genera of North America**

*Thurs., 13 Nov.*

Water Economy: Chapter 6:157–175

*Tues., 18 Nov.*

Thermal Ecology: Chapter 7:177–196

**Lab:Lizard genera of North America**

*Thurs., 20 Nov*

Population Dynamics: Chapter 12:301–313

*Tues., 25 Nov.*

Patterns of Species Diversity: Chapter 13:315–338

**Lab: Snake genera of North America**

*Thurs., 23 Nov: Enjoy your derived reptilian feast.*

**No class.**

*Tues., 2 Dec.*

Biogeography: Chapter 13:315–338

**Lab: Reptile and amphibian species of Kansas**

*Thur., 4 Dec.*

Herpetological Communities: Chapter 14:339–364

*Tues., 9 Dec.*

Declining Amphibians and Conservation

**Lab: Review: open lab**

*Thur., 11 Dec.*

*Mon 15 Dec Lecture Final Exam 7–10:00 am.*

*Tues 17 Dec* Lab Practical (NA genera & KS species; 40% of grade) 1:30–4:00 pm

Class Evaluation

Synthesis & Discussion: Last chance before the final for questions.