

# Spring 2018 Ecology/Evolutionary Biology 353 Section 001 Comparative Vertebrate Biol

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## Comparative Vertebrate Biology EEB 353 Spring 2017

Instructor: Ben Fitzpatrick, 524 Hesler (benfitz@utk.edu)

Office Hours MWF after class (or appointment).

TA: Evin Carter, 526 Hesler (ecarte19@vols.utk.edu)

Office Hours by appointment

### What is Comparative Biology?

Comparative biology seeks to understand similarities and differences among different kinds of organisms. Comparative biology uses natural variation among organisms together with knowledge of their phylogenetic relationships to understand patterns of life at all levels.

### What is Natural History?

“A field-based science employing descriptive and comparative methods for understanding and interpreting the biotic and abiotic components of the natural world, the relationships among them, and their evolution through time.” -- Gilligan, D. 2009. *Journal of Natural History Education* 3: 24-29.

Natural History emphasizes four kinds of skills:

1. Observation
2. Identification
3. Interpretation
4. Evaluation

**Learning objectives:**

1. Know how to identify and classify the common vertebrates of Tennessee
2. Know how to identify and classify the major clades of vertebrates on Earth
3. Apply fundamental concepts of natural history to interpret vertebrate form and function

**Texts:**

1. *The Ancestor's Tale* by Richard Dawkins (on blackboard)
2. We will read articles from the primary literature for some class topics. Check CANVAS for reading assignments
3. (optional) Field guides to birds, other reptiles, amphibians, mammals, fish. Any recent guide will do. I recommend:
  - *Sibley's field guide to birds* (the big North American guide or the smaller guide to Eastern North America) <http://www.sibleyguides.com/about/the-sibley-guide-to-birds/>
  - Peterson's for all other groups

<http://www.houghtonmifflinbooks.com/peterson/petersonhome.cfm>

- Online resources: see CANVAS

**Grading:**

| % of Grade | Item   |
|------------|--|
| 20         | In class/lab participation, activities, quizzes, assignments |
| 10         | Each Lecture midterm (x2)                                    |
| 10         | Each Lab midterm (x2)  |
| 10         | Writing assignments (x2)                                     |
| 10         | Lecture Final  |
| 10         | Lab Final  |

**Writing assignments (see rubrics for important details):**

1. Specimen-based writing: Use a particular vertebrate specimen (here or in the McClung Museum) as the focus of an informative essay. Use the basic natural history skills (observation, identification, interpretation, evaluation) to describe the object and its significance.

2. Option A: Write a “tale” similar to the chapters in *The Ancestor’s Tale*. This must use a particular vertebrate species to illustrate some interesting broader issue in biology (e.g., comparative anatomy, ecology, evolution, behavior).

Option B: Field-based writing: Similar to the specimen-based assignment, but focusing on a *live animal* in the field or zoo. Use the basic natural history skills (observation, identification, interpretation, evaluation) to describe a significant aspect of the animal’s behavior, form, or function. Use comparative biology to explain your observations.





**Policy on Extensions:** No extensions will be granted for assignments on the basis of conflicts with assignments in other classes; look at all your syllabi now and plan ahead for the semester. The only exception is for medical problems serious enough that you are consulting with UT or other professional health services. If you miss a class, you are responsible for the work assigned for that day and class work from that day.

















**Policy for Students with Disabilities:** If you have a disability and feel that you may have need for some type of academic accommodation in order to participate fully in this class, please feel free to discuss your concerns with me in private and also contact the Office of Disability Services (4 – 6087; ods@utk.edu; <http://ods.utk.edu/>)







### UTK Campus Syllabus:

<http://tenntlc.utk.edu/teaching-pedagogies/provost-resources/campus-syllabus-2/>















## Course Summary:



















| Date             | Details   |                  |
|------------------|---|------------------|
| Wed Jan 25, 2017 |  <a href="https://utk.instructure.com/calendar?event_id=42393&amp;include_contexts=course_45537">Field Trip to Zoo Knoxville (https://utk.instructure.com/calendar?event_id=42393&amp;include_contexts=course_45537)</a>   | 8am to 12:05pm   |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43955&amp;include_contexts=course_45537">Field Trip to Zoo Knoxville (https://utk.instructure.com/calendar?event_id=43955&amp;include_contexts=course_45537)</a>   | 8am to 12:05pm   |
| Fri Feb 10, 2017 |  <a href="https://utk.instructure.com/calendar?event_id=42357&amp;include_contexts=course_45537">Pikas Under Fire: American Pika Ecology and Behavior in a Time of Global Change (https://utk.instructure.com/calendar?event_id=42357&amp;include_contexts=course_45537)</a> | 3:30pm to 4:30pm |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43961&amp;include_contexts=course_45537">Pikas Under Fire: American Pika Ecology and Behavior in a Time of Global Change (https://utk.instructure.com/calendar?event_id=43961&amp;include_contexts=course_45537)</a> | 3:30pm to 4:30pm |

| Date             | Details  |                |
|------------------|--|----------------|
| Sat Feb 18, 2017 |  <a href="https://utk.instructure.com/calendar?event_id=42356&amp;include_contexts=course_45537">FIELD TRIP: Gray Fossil Site \$5 (https://utk.instructure.com/calendar?event_id=42356&amp;include_contexts=course_45537)</a> | 12am           |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43962&amp;include_contexts=course_45537">FIELD TRIP: Gray Fossil Site \$5 (https://utk.instructure.com/calendar?event_id=43962&amp;include_contexts=course_45537)</a> | 12am           |
| Wed Mar 8, 2017  |  <a href="https://utk.instructure.com/courses/45537/assignments/202814">Exam 2 (https://utk.instructure.com/courses/45537/assignments/202814)</a>   | due by 11:59pm |
| Wed Mar 22, 2017 |  <a href="https://utk.instructure.com/calendar?event_id=42367&amp;include_contexts=course_45537">Field Trip (https://utk.instructure.com/calendar?event_id=42367&amp;include_contexts=course_45537)</a>                       | 12am           |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43959&amp;include_contexts=course_45537">Field Trip (https://utk.instructure.com/calendar?event_id=43959&amp;include_contexts=course_45537)</a>                       | 12am           |
| Wed Mar 29, 2017 |  <a href="https://utk.instructure.com/calendar?event_id=42361&amp;include_contexts=course_45537">no class: fish and amphibian lab (https://utk.instructure.com/calendar?event_id=42361&amp;include_contexts=course_45537)</a> | 12am           |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43960&amp;include_contexts=course_45537">no class: fish and amphibian lab (https://utk.instructure.com/calendar?event_id=43960&amp;include_contexts=course_45537)</a> | 12am           |
| Wed Apr 5, 2017  |  <a href="https://utk.instructure.com/calendar?event_id=42395&amp;include_contexts=course_45537">Field trip (https://utk.instructure.com/calendar?event_id=42395&amp;include_contexts=course_45537)</a>                       | 12am           |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43954&amp;include_contexts=course_45537">Field trip (https://utk.instructure.com/calendar?event_id=43954&amp;include_contexts=course_45537)</a>                     | 12am           |
| Sat Apr 8, 2017  |  <a href="https://utk.instructure.com/calendar?event_id=42355&amp;include_contexts=course_45537">FIELD TRIP: TN Aquarium (https://utk.instructure.com/calendar?event_id=42355&amp;include_contexts=course_45537)</a>        | 12am           |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43963&amp;include_contexts=course_45537">FIELD TRIP: TN Aquarium (https://utk.instructure.com/calendar?event_id=43963&amp;include_contexts=course_45537)</a>        | 12am           |
| Mon Apr 10, 2017 |  <a href="https://utk.instructure.com/calendar?event_id=42349&amp;include_contexts=course_45537">no class: open lab (https://utk.instructure.com/calendar?event_id=42349&amp;include_contexts=course_45537)</a>             | 12am           |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43964&amp;include_contexts=course_45537">no class: open lab (https://utk.instructure.com/calendar?event_id=43964&amp;include_contexts=course_45537)</a>             | 12am           |
| Wed Apr 12, 2017 |  <a href="https://utk.instructure.com/calendar?event_id=42389&amp;include_contexts=course_45537">LAB specimen review (https://utk.instructure.com/calendar?event_id=42389&amp;include_contexts=course_45537)</a>            | 8am to 12:05pm |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43956&amp;include_contexts=course_45537">LAB specimen review (https://utk.instructure.com/calendar?event_id=43956&amp;include_contexts=course_45537)</a>            | 8am to 12:05pm |
| Mon Apr 17, 2017 |  <a href="https://utk.instructure.com/courses/45537/assignments/202810">Apr 17 fish fin quiz (https://utk.instructure.com/courses/45537/assignments/202810)</a>   | due by 11:59pm |
| Wed Apr 19, 2017 |  | 12am           |















| Date             | Details   |              |
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|                  |  <a href="https://utk.instructure.com/calendar?event_id=42384&amp;include_contexts=course_45537">Field trip? (https://utk.instructure.com/calendar?event_id=42384&amp;include_contexts=course_45537)</a>   |              |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43957&amp;include_contexts=course_45537">Field trip? (https://utk.instructure.com/calendar?event_id=43957&amp;include_contexts=course_45537)</a>   | 12am         |
| Fri Apr 21, 2017 |  <a href="https://utk.instructure.com/calendar?event_id=42347&amp;include_contexts=course_45537">no class: open lab (https://utk.instructure.com/calendar?event_id=42347&amp;include_contexts=course_45537)</a>                                    | 12am         |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43965&amp;include_contexts=course_45537">no class: open lab (https://utk.instructure.com/calendar?event_id=43965&amp;include_contexts=course_45537)</a>                                    | 12am         |
| Wed Apr 26, 2017 |  <a href="https://utk.instructure.com/calendar?event_id=42376&amp;include_contexts=course_45537">Field trip (https://utk.instructure.com/calendar?event_id=42376&amp;include_contexts=course_45537)</a>  | 12am         |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43958&amp;include_contexts=course_45537">Field trip (https://utk.instructure.com/calendar?event_id=43958&amp;include_contexts=course_45537)</a>  | 12am         |
| Wed Jan 10, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42364&amp;include_contexts=course_45537">Overview, what is a vertebrate? (https://utk.instructure.com/calendar?event_id=42364&amp;include_contexts=course_45537)</a>                       | 11am to 12pm |
| Fri Jan 12, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42363&amp;include_contexts=course_45537">READ: General Prologue + The Pilgrimage Begins (https://utk.instructure.com/calendar?event_id=42363&amp;include_contexts=course_45537)</a>       | 12am         |
| Mon Jan 15, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42358&amp;include_contexts=course_45537">No Class MLK! (https://utk.instructure.com/calendar?event_id=42358&amp;include_contexts=course_45537)</a>                                       | 12am         |
| Wed Jan 17, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42360&amp;include_contexts=course_45537">READ: Rendezvous 0 (Tasmanian + Eve) (https://utk.instructure.com/calendar?event_id=42360&amp;include_contexts=course_45537)</a>                | 12am         |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=42397&amp;include_contexts=course_45537">LAB: Mammals + McClung Museum Hall of Human Origins (https://utk.instructure.com/calendar?event_id=42397&amp;include_contexts=course_45537)</a> | 8am to 11am  |
| Fri Jan 19, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42394&amp;include_contexts=course_45537">READ: Orangutan + Gibbon (https://utk.instructure.com/calendar?event_id=42394&amp;include_contexts=course_45537)</a>                            | 12am         |
| Mon Jan 22, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42354&amp;include_contexts=course_45537">READ: Rodents and Rabbitkind (https://utk.instructure.com/calendar?event_id=42354&amp;include_contexts=course_45537)</a>                        | 12am         |
| Wed Jan 24, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42359&amp;include_contexts=course_45537">READ: Laurasiatheres (https://utk.instructure.com/calendar?event_id=42359&amp;include_contexts=course_45537)</a>                                | 12am         |
| Fri Jan 26, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42398&amp;include_contexts=course_45537">READ: Xenarthra (https://utk.instructure.com/calendar?event_id=42398&amp;include_contexts=course_45537)</a>                                     | 12am         |

| Date             | Details  |                    |
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| Mon Jan 29, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42396&amp;include_contexts=course_45537">READ: Afrotheria (https://utk.instructure.com/calendar?event_id=42396&amp;include_contexts=course_45537)</a>   | 12am               |
| Wed Jan 31, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=43970&amp;include_contexts=course_45537">READ: Marsupials (https://utk.instructure.com/calendar?event_id=43970&amp;include_contexts=course_45537)</a>   | 12am               |
| Fri Feb 2, 2018  |  <a href="https://utk.instructure.com/calendar?event_id=42392&amp;include_contexts=course_45537">READ: Monotremes (https://utk.instructure.com/calendar?event_id=42392&amp;include_contexts=course_45537)</a>   | 12am               |
| Mon Feb 5, 2018  |  <a href="https://utk.instructure.com/calendar?event_id=42365&amp;include_contexts=course_45537">review for first exams (https://utk.instructure.com/calendar?event_id=42365&amp;include_contexts=course_45537)</a>                                   | 12am               |
| Wed Feb 7, 2018  |  <a href="https://utk.instructure.com/calendar?event_id=42391&amp;include_contexts=course_45537">Lab Exam 1 (https://utk.instructure.com/calendar?event_id=42391&amp;include_contexts=course_45537)</a>   | 9am to 11am        |
| Wed Feb 7, 2018  |  <a href="https://utk.instructure.com/calendar?event_id=42390&amp;include_contexts=course_45537">Lecture Exam 1 (https://utk.instructure.com/calendar?event_id=42390&amp;include_contexts=course_45537)</a>   | 11:15am to 12:05pm |
| Fri Feb 9, 2018  |  <a href="https://utk.instructure.com/calendar?event_id=42388&amp;include_contexts=course_45537">READ: Object-based writing examples (https://utk.instructure.com/calendar?event_id=42388&amp;include_contexts=course_45537)</a>                      | 12am               |
| Mon Feb 12, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42386&amp;include_contexts=course_45537">READ: Sauropsids (Introduction) + Sinervo et al. paper (https://utk.instructure.com/calendar?event_id=42386&amp;include_contexts=course_45537)</a> | 12am               |
| Wed Feb 14, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=43937&amp;include_contexts=course_45537">READ: Weins et al 2006 (https://utk.instructure.com/calendar?event_id=43937&amp;include_contexts=course_45537)</a>                                 | 12am               |
| Fri Feb 16, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=43936&amp;include_contexts=course_45537">READ: parental care in diapsids + Telltale Wishbone (https://utk.instructure.com/calendar?event_id=43936&amp;include_contexts=course_45537)</a>    | 12am               |
| Mon Feb 19, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42385&amp;include_contexts=course_45537">READ: Galapagos Finch (https://utk.instructure.com/calendar?event_id=42385&amp;include_contexts=course_45537)</a>                                  | 12am               |
| Wed Feb 21, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42382&amp;include_contexts=course_45537">READ: Peacock (https://utk.instructure.com/calendar?event_id=42382&amp;include_contexts=course_45537)</a>  | 12am               |
| Fri Feb 23, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42372&amp;include_contexts=course_45537">First Writing Assignment DUE (https://utk.instructure.com/calendar?event_id=42372&amp;include_contexts=course_45537)</a>                           | 12am               |
| Fri Feb 23, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42381&amp;include_contexts=course_45537">READ: Dodo (https://utk.instructure.com/calendar?event_id=42381&amp;include_contexts=course_45537)</a>   | 12am               |
| Mon Feb 26, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42380&amp;include_contexts=course_45537">READ Elephant Bird (https://utk.instructure.com/calendar?event_id=42380&amp;include_contexts=course_45537)</a>                                     | 12am               |

| Date             | Details   |                    |
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| Wed Feb 28, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42378&amp;include_contexts=course_45537">READ: Eulogies for Lonesome George</a><br><a href="https://utk.instructure.com/calendar?event_id=42378&amp;include_contexts=course_45537">https://utk.instructure.com/calendar?event_id=42378&amp;include_contexts=course_45537</a> | 12am               |
| Fri Mar 2, 2018  |  <a href="https://utk.instructure.com/calendar?event_id=42377&amp;include_contexts=course_45537">READ: Review Sauropsids</a> <a href="https://utk.instructure.com/calendar?event_id=42377&amp;include_contexts=course_45537">https://utk.instructure.com/calendar?event_id=42377&amp;include_contexts=course_45537</a>               | 12am               |
| Mon Mar 5, 2018  |  <a href="https://utk.instructure.com/calendar?event_id=42369&amp;include_contexts=course_45537">review for second exams</a> <a href="https://utk.instructure.com/calendar?event_id=42369&amp;include_contexts=course_45537">https://utk.instructure.com/calendar?event_id=42369&amp;include_contexts=course_45537</a>               | 12am               |
| Wed Mar 7, 2018  |  <a href="https://utk.instructure.com/calendar?event_id=43927&amp;include_contexts=course_45537">Lab Exam 2</a> <a href="https://utk.instructure.com/calendar?event_id=43927&amp;include_contexts=course_45537">https://utk.instructure.com/calendar?event_id=43927&amp;include_contexts=course_45537</a>                            | 9am to 11am        |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43926&amp;include_contexts=course_45537">Lecture Exam 2</a> <a href="https://utk.instructure.com/calendar?event_id=43926&amp;include_contexts=course_45537">https://utk.instructure.com/calendar?event_id=43926&amp;include_contexts=course_45537</a>                        | 11:15am to 12:05pm |
| Fri Mar 9, 2018  |  <a href="https://utk.instructure.com/calendar?event_id=42375&amp;include_contexts=course_45537">Discuss 2nd writing assignment</a> <a href="https://utk.instructure.com/calendar?event_id=42375&amp;include_contexts=course_45537">https://utk.instructure.com/calendar?event_id=42375&amp;include_contexts=course_45537</a>        | 12am               |
| Mon Mar 12, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42371&amp;include_contexts=course_45537">Spring Break</a> <a href="https://utk.instructure.com/calendar?event_id=42371&amp;include_contexts=course_45537">https://utk.instructure.com/calendar?event_id=42371&amp;include_contexts=course_45537</a>                          | 12am               |
| Mon Mar 19, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42374&amp;include_contexts=course_45537">READ: Salamander + Narrowmouth</a> <a href="https://utk.instructure.com/calendar?event_id=42374&amp;include_contexts=course_45537">https://utk.instructure.com/calendar?event_id=42374&amp;include_contexts=course_45537</a>      | 12am               |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43923&amp;include_contexts=course_45537">READ: Salamander + Narrowmouth</a> <a href="https://utk.instructure.com/calendar?event_id=43923&amp;include_contexts=course_45537">https://utk.instructure.com/calendar?event_id=43923&amp;include_contexts=course_45537</a>      | 12am               |
| Wed Mar 21, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42366&amp;include_contexts=course_45537">READ: Axolotl + Mudpuppy</a> <a href="https://utk.instructure.com/calendar?event_id=42366&amp;include_contexts=course_45537">https://utk.instructure.com/calendar?event_id=42366&amp;include_contexts=course_45537</a>            | 12am               |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43922&amp;include_contexts=course_45537">READ: Axolotl + Mudpuppy</a> <a href="https://utk.instructure.com/calendar?event_id=43922&amp;include_contexts=course_45537">https://utk.instructure.com/calendar?event_id=43922&amp;include_contexts=course_45537</a>            | 12am               |
| Wed Mar 28, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42350&amp;include_contexts=course_45537">no class: open lab</a> <a href="https://utk.instructure.com/calendar?event_id=42350&amp;include_contexts=course_45537">https://utk.instructure.com/calendar?event_id=42350&amp;include_contexts=course_45537</a>                  | 12am               |
| Fri Mar 30, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=43972&amp;include_contexts=course_45537">Spring recess</a> <a href="https://utk.instructure.com/calendar?event_id=43972&amp;include_contexts=course_45537">https://utk.instructure.com/calendar?event_id=43972&amp;include_contexts=course_45537</a>                       | 12am               |
| Mon Apr 2, 2018  |  <a href="https://utk.instructure.com/calendar?event_id=42348&amp;include_contexts=course_45537">READ: Lungfish + Coelocanth</a> <a href="https://utk.instructure.com/calendar?event_id=42348&amp;include_contexts=course_45537">https://utk.instructure.com/calendar?event_id=42348&amp;include_contexts=course_45537</a>         | 12am               |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43920&amp;include_contexts=course_45537">READ: Lungfish + Coelocanth</a> <a href="https://utk.instructure.com/calendar?event_id=43920&amp;include_contexts=course_45537">https://utk.instructure.com/calendar?event_id=43920&amp;include_contexts=course_45537</a>         | 12am               |
| Fri Apr 6, 2018  |   | 12am               |

| Date             | Details   |                    |
|------------------|---|--------------------|
|                  |  <a href="https://utk.instructure.com/calendar?event_id=42353&amp;include_contexts=course_45537">READ: Leafy Sea Dragon + Pike + Mudskipper (https://utk.instructure.com/calendar?event_id=42353&amp;include_contexts=course_45537)</a>      |                    |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43919&amp;include_contexts=course_45537">READ: Leafy Sea Dragon + Pike + Mudskipper (https://utk.instructure.com/calendar?event_id=43919&amp;include_contexts=course_45537)</a>      | 12am               |
| Mon Apr 9, 2018  |  <a href="https://utk.instructure.com/calendar?event_id=42387&amp;include_contexts=course_45537">READ: Sharks and kin + TBA (https://utk.instructure.com/calendar?event_id=42387&amp;include_contexts=course_45537)</a>                      | 12am               |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43918&amp;include_contexts=course_45537">READ: Sharks and kin + TBA (https://utk.instructure.com/calendar?event_id=43918&amp;include_contexts=course_45537)</a>                      | 12am               |
| Mon Apr 16, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42383&amp;include_contexts=course_45537">READ: Lampreys and Hagfish (https://utk.instructure.com/calendar?event_id=42383&amp;include_contexts=course_45537)</a>                      | 12am               |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43917&amp;include_contexts=course_45537">READ: Lampreys and Hagfish (https://utk.instructure.com/calendar?event_id=43917&amp;include_contexts=course_45537)</a>                      | 12am               |
| Mon Apr 23, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42379&amp;include_contexts=course_45537">READ: Lancelets (https://utk.instructure.com/calendar?event_id=42379&amp;include_contexts=course_45537)</a>                                 | 12am               |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43916&amp;include_contexts=course_45537">READ: Lancelets (https://utk.instructure.com/calendar?event_id=43916&amp;include_contexts=course_45537)</a>                                | 12am               |
| Fri Apr 27, 2018 |  <a href="https://utk.instructure.com/calendar?event_id=42370&amp;include_contexts=course_45537">Review for final + 2nd writing assignment due (https://utk.instructure.com/calendar?event_id=42370&amp;include_contexts=course_45537)</a> | 12am               |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43915&amp;include_contexts=course_45537">Review for final + 2nd writing assignment due (https://utk.instructure.com/calendar?event_id=43915&amp;include_contexts=course_45537)</a> | 12am               |
| Thu May 3, 2018  |  <a href="https://utk.instructure.com/calendar?event_id=42362&amp;include_contexts=course_45537">FINAL EXAM (https://utk.instructure.com/calendar?event_id=42362&amp;include_contexts=course_45537)</a>                                    | 10:15am to 12:15pm |
|                  |  <a href="https://utk.instructure.com/calendar?event_id=43914&amp;include_contexts=course_45537">FINAL EXAM (https://utk.instructure.com/calendar?event_id=43914&amp;include_contexts=course_45537)</a>                                    | 10:15am to 12:15pm |
|                  |  <a href="https://utk.instructure.com/courses/45537/assignments/202796">1.11P - Lab (https://utk.instructure.com/courses/45537/assignments/202796)</a>   |                    |
|                  |  <a href="https://utk.instructure.com/courses/45537/assignments/202797">1.13P - Lecture (https://utk.instructure.com/courses/45537/assignments/202797)</a>   |                    |
|                  |  <a href="https://utk.instructure.com/courses/45537/assignments/202798">1.18P - Field (https://utk.instructure.com/courses/45537/assignments/202798)</a>   |                    |
|                  |  <a href="https://utk.instructure.com/courses/45537/assignments/202799">1.18P - Lab (https://utk.instructure.com/courses/45537/assignments/202799)</a>   |                    |
|                  |  <a href="https://utk.instructure.com/courses/45537/assignments/202800">1.19P - Field (https://utk.instructure.com/courses/45537/assignments/202800)</a>   |                    |
|                  |  <a href="https://utk.instructure.com/courses/45537/assignments/202801">2.15P - Lab (https://utk.instructure.com/courses/45537/assignments/202801)</a>   |                    |



| Date | Details   |
|------|---|
|      |  <a href="https://utk.instructure.com/courses/45537/assignments/202802">2.22P - Lab (https://utk.instructure.com/courses/45537/assignments/202802)</a>         |
|      |  <a href="https://utk.instructure.com/courses/45537/assignments/202803">2.7P - Lab Bonus (https://utk.instructure.com/courses/45537/assignments/202803)</a>    |
|      |  <a href="https://utk.instructure.com/courses/45537/assignments/202805">3.1P - Lab (https://utk.instructure.com/courses/45537/assignments/202805)</a>          |
|      |  <a href="https://utk.instructure.com/courses/45537/assignments/202806">3.23P - Lab (https://utk.instructure.com/courses/45537/assignments/202806)</a>         |
|      |  <a href="https://utk.instructure.com/courses/45537/assignments/202807">3.29P - Lab (https://utk.instructure.com/courses/45537/assignments/202807)</a>         |
|      |  <a href="https://utk.instructure.com/courses/45537/assignments/202808">4.12P - Lab (https://utk.instructure.com/courses/45537/assignments/202808)</a>         |
|      |  <a href="https://utk.instructure.com/courses/45537/assignments/202809">4.26P - Field (https://utk.instructure.com/courses/45537/assignments/202809)</a>       |
|      |  <a href="https://utk.instructure.com/courses/45537/assignments/202811">Essay 1 (https://utk.instructure.com/courses/45537/assignments/202811)</a>             |
|      |  <a href="https://utk.instructure.com/courses/45537/assignments/202812">Essay2 (https://utk.instructure.com/courses/45537/assignments/202812)</a>              |
|      |  <a href="https://utk.instructure.com/courses/45537/assignments/202813">Exam 1 (https://utk.instructure.com/courses/45537/assignments/202813)</a>              |
|      |  <a href="https://utk.instructure.com/courses/45537/assignments/202815">Final Exam (https://utk.instructure.com/courses/45537/assignments/202815)</a>          |
|      |  <a href="https://utk.instructure.com/courses/45537/assignments/202816">Final Lab Exam (https://utk.instructure.com/courses/45537/assignments/202816)</a>      |
|      |  <a href="https://utk.instructure.com/courses/45537/assignments/202817">Mammal Lab Exam (https://utk.instructure.com/courses/45537/assignments/202817)</a>     |
|      |  <a href="https://utk.instructure.com/courses/45537/assignments/202818">Sauropsids Lab Exam (https://utk.instructure.com/courses/45537/assignments/202818)</a> |