

THIS WEEK IN BI 101

EXAM #1 IS MONDAY OCT. 20, 7:00 - 7:50 P.M.

TUESDAY LECTURE



Lakes and Succession

Standing bodies of freshwater that can change over time.

THURSDAY LECTURE



Wetlands and Water Issues

Mixed terrestrial and aquatic ecosystems.

RECITATION



Insects

Beetles, bugs, and more in this diverse Class of invertebrates.

LABORATORY



Mammals

Characteristics and classification with a special focus on beavers.

ON-LINE READINGS



Eutrophication and Beavers

Excessive nutrients in lakes; interesting beaver facts.



Work Ahead for Tuesday’s Lecture

Read “Eutrophication” and answer the following questions.

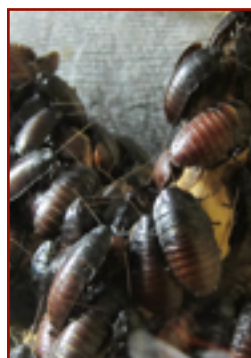
Where do pollutants in lakes come from?

What is the difference between point source and non-point source pollution?

How does acid rain impact fish and other aquatic organisms?

What are some of the effects of harmful algal blooms?

What causes lake eutrophication?



Exam locations are posted at the course website.

Work Ahead for Thursday’s Lecture and Lab

Review “Beavers” and answer the following questions.

What do beavers use **castoreum** for?

What part of the tree do beavers eat?

How do beaver activities relate to succession (long term ecosystem changes)?

Work Ahead for Recitation

In the **activity manual**, read over *Insects* to answer these questions.

Besides insects, what are other examples of Arthropods? (hint: there were examples in the Marine Animals lab)

Which insect is part of the largest *Order* in *Class Insecta*? (p. 63)

Some insects, like butterflies, undergo **complete metamorphosis**. What are the four stages of their life cycle? (p. 65)

Importance of Beavers:

Beavers are an example of a keystone species, meaning they impact many other species in their habitat.

Work Ahead for Laboratory

In the **activity manual**, read over *Mammals* to answer these questions.

What is **scat**? (p. 73)

Provide examples of mammals that represent each of the following groups:

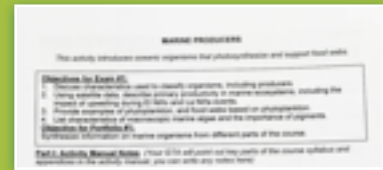
Carnivorans:

Rodents:

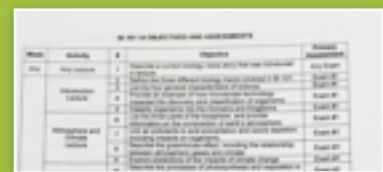
Ungulates:

If your exam #1 results are not as high as you would like... First do the "Exam Results Analysis" portfolio assignment (activity manual, p. 68). Next, seek assistance from the Teaching Team ([office hours](#) are posted at the course website).

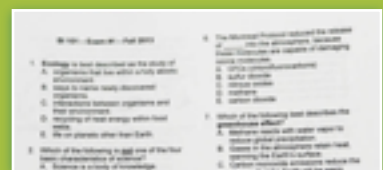
Resources for Exam Studying



Your Course Materials: Your lecture notes, filled in laboratory and recitation activities, and any other study materials.



Course Objectives: Located in Appendix A and at the course website.



Last Year's Exams: Located in Appendix D.



Weekly Online Previews: This one and the rest posted at the course website.