

Study Guide – Ecology

Biology

Instructions: This is NOT a graded assignment. You may use the equivalent of one sheet of paper, front and back, of hand-written (or typed by you) notes for the test.

1. Know and understand the following terms:

- Ecology
- Symbiosis
- Six characteristics of living organisms
- Individual
- Population
- Community
- Ecosystem
- Biosphere
- Biotic factors
- Abiotic factors
- Aquatic macroinvertebrates (also recognize the main classifications we looked at in class)
- Trophic levels
- Producer
- Consumer
- Decomposer
- Functional feeding groups
- Shredder
- Scraper
- Collector
- Predator
- Species diversity
- Species richness
- Species evenness
- Keystone species
- Ecological interactions
- Competition
- Predation and Predator–Prey Interactions
- Camouflage
- Mechanical defenses
- Chemical defenses
- Crypsis

- Aposematic coloration
- Mimicry
- Mutualism
- Commensalism
- Parasitism
- Linear regression (and R^2)
- T-test (and p-value)
- Pollution tolerance

2. Be able to describe and explain examples of the ecological interactions we discussed in class.
3. Be able to discuss the specifics of the aquatic macroinvertebrate project we worked on (including the project set up and how we interpreted the data using a linear regression and t-tests).