

Kentucky Class Notes

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**BIO 148 Beattie
Spring 2012
Test 1**

*BIO 148-Introductory Biology I: What is the nature of biological diversity and how did it arise?

1/11/12

Biodiversity

- **Definition:** The variety and variability among living organisms and the ecological complexes in which they occur: genetic, species, ecosystem
- **Genetic:** diversity within a species; genetic differences between individuals within same species
- **Species:** how many different species there are and the differences between them
- **Ecosystem:** difference between biodiversity in locations, ex: deciduous vs. rainforest

Biology: the study of life at various scales

- **Molecular:** biodiversity as it relates to DNA and protein composition
- Cellular level –tissues –organs –organ systems –multi-cellular organ systems–organism –population –communities –ecosystem –biosphere

Organisms are extremely diverse

Domains

- Archae bacteria: all individuals are bacteria, very ancient bacteria many are extremophiles in that they can survive in very extreme environments or produce unusual byproducts



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