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# Kentucky Class Notes

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*BIO 103 Jones*

*Test 1*



**859.523.3353**

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**BIO 103 Jones**  
**Spring 2012**  
**Test 1**

January 11<sup>th</sup>, 2012

Basic Ideas of Biology: Questions

1. What is biology?
  2. What is the goal of Science?
  3. What are the basic questions of Biology?
- ✓ Biology is the scientific study of life
  - ✓ The goals of biology is to:
    - Observe and test natural occurrences
    - Answers why things happen to form, a better understanding of the natural world.

Basic Questions & how we will answer them through the semester:

- What is life? Cell life
- How is life sustained? Genetics
- How has life changed? Evolution
- How are the instructions of life passed on? Genetics
- What is the life of organisms like? Ecology

The basics of life: Biology

- Study of the structure and function of its component
  - Molecular biology
  - Energetics
  - Respiration
  - Photosynthesis

The continuance of life: Genetics



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- Scientific study of the inheritance of traits
  - Cell Division
  - Cancer Biology
  - Mendelion Genetics
  - DNA and the code of life
  - Biotechnology

## The Community of Life: Ecology

- Scientific study of the relationships between organisms and their environment
  - Population Ecology
  - Community Ecology
  - Biodiversity
  - Conservation

## The changes in life: Evolution

- Scientific study of how organisms have changed over time
  - Natural selection
  - Evidence of evolution
  - Speciation
  - Vertebrate evolution

**January 13<sup>th</sup>, 2012**

What is science?

Science is....

- A way of knowing



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