BSC 1005C
Diversity of life

COURSE DESCRIPTION

Diversity of life (3) (A.A.). Four hours lecture/lab per week. The course meets Area V requirements for the A.A./A.A.S./A.S. general education requirements. This course is designed to introduce students to the diversity of life on Earth and integrate current issues to teach biological concepts. Topics covered include cells, organisms, genetics, evolution, ecology, and behavior. This course investigates the traits and ecological roles of bacteria, protists, fungi, plants, and animals. Many topics will be taught through contemporary issues such as endangered species and threatened habitats. This course is appropriate for non-science majors. Students already with credit for MCB 2003 or BSC2011C cannot subsequently get credit for BSC1005C. Additional special fees are required.

Performance Standards:

The student, upon the successful completion of BSC 1005C, should be able to:

1. Demonstrate basic scientific literacy in Biology.
2. Describe the scientific method and show examples of how science works.
3. List 5 characteristics that distinguish living from non-living matter.
4. Distinguish between DNA, chromosomes, and genes in relationship to heredity.
5. Demonstrate an understanding of biodiversity and its importance to life on Earth.
6. Describe how biologists organize and classify living organisms.
7. Distinguish between bacteria, protists, fungi, plants, and animals.
8. Explain the evolutionary adaptations of organisms.
9. Identify the roles of major biological taxa found in different habitats (emphasis on Florida habitats).
10. Demonstrate an understanding of the role of plants as producers.
11. Demonstrate an understanding of the role of fungi as decomposers.
12. Identify the interdependence of organisms.
13. Identify important interrelationships between human societies and the natural world.
14. Demonstrate critical thinking skills through laboratory components.
15.Demonstrate the ability to interact effectively with peers by participating in presentations and/or group assignments/discussions.

Date of Last Revision: October 19, 2007