



COURSE SYLLABUS

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COURSE: **BIO 112** **GENERAL BIOLOGY II**

HOURS: Lecture: 3 Lab/Shop: 3 Work Exp/Clinical: 0 Credits: 4

COURSE DESCRIPTION:

This course is a continuation of BIO 111. Emphasis is placed on organisms, evolution, biodiversity, plant and animal systems, ecology, and other related topics. Upon completion, students should be able to demonstrate comprehension of life at the organismal and ecological levels.

Note: In accordance with the Comprehensive Articulation Agreement, this course has been approved to satisfy the Universal General Education Transfer Component requirement for natural sciences in the A.S. degree program. This course has been approved to meet the natural sciences requirement in A.A.S. degree programs.

PREREQUISITE(S): BIO 111

COREQUISITE(S): None

TEXTBOOK(S) & OTHER SPECIAL REQUIREMENTS:

Open Educational Resources (OER) are listed in the course Moodle.

STUDENT LEARNING OUTCOMES:

Upon successful completion of this course, the student will be able to:

1. Construct an evolutionary tree of life and be able to discuss speciation and the classification system.
2. Identify different tissues of plants and animals and recognize their contribution to organ construction.
3. Compare and contrast major characteristics amongst bacteria, fungi, protists, lower plants, flowering plants, invertebrates and vertebrates.
4. Differentiate between reproductive strategies and outline developmental pathways from fertilization to organogenesis.
5. Explain the processes involved in the acquisition of nutrients and removal of wastes within organismal systems.
6. Diagram pathways of food webs and nutrient cycles for different terrestrial and aquatic biomes.
7. Discuss population ecology and explain community structure.
8. Discuss the importance of biodiversity and the impact of human activity on ecosystems around the world.

*****Please refer to the online version of the Richmond Community College Program & Course Catalog and the Student Handbook for current academic and general information.**