Administrative Unit: Science Department
Course Prefix and Number: BIOL 112L
Course Title: Principles of Biology II Laboratory
Number of: Credit Hours: 2 Lecture Hours: 0 Laboratory Hours: 2
Catalog Description: Laboratory experiences to complement BIOL 112. $20 lab fee. Prerequisite: BIOL 110 and BIOL 110L, BIOL 112 or concurrent enrollment. Students majoring in Biology must earn a grade of C or better. Offered Spring.
Prerequisite(s)/Corequisite(s): BIOL 110 and BIOL 110L, BIOL 112 or concurrent enrollment
Text(s): Textbooks listed are not necessarily the textbook(s) used in the course.
Most current edition of the following:
Richardson, D. J. & Richardson, K. E. Biology: A Laboratory Guide to the Natural World. Prentice Hall.
S. Gunstream. Explorations in Basic Biology. Prentice Hall.
Course Objectives:
• To demonstrate basic laboratory techniques of experimentation and measurement using exercises that complement topics covered in BIOL 112 lecture.
Measurable Learning Outcomes
• Apply the scientific method.
• Differentiate between the modes of natural selection.
• Apply the biological species concept.
• List the taxonomic hierarchy.
• Name the domains and kingdoms of life and list defining characteristics of each.
• List characteristics used to describe populations and describe population growth patterns.
• Describe how species interact at the community level.
• Provide examples of succession.
• Illustrate energy movement in an ecosystem.
• Compare characteristics of major biomes and aquatic ecosystems.
Topical Outline (major areas of coverage):
• Population genetics
• Evolution and natural selection
• Taxonomy
• Survey of organisms
Ecology and ecosystems

Material from this course may be tested on the Major Field Test (MFT) administered during the Culminating Experience course for the degree.

Recommended maximum class size for this course: 24

Library Resources: Online databases are available at http://www.ccis.edu/offices/library/resources.asp. You may access them from off-campus using your eServices login and password when prompted.

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Date: October 14, 2005

NOTE: The intention of the master syllabus is to provide an outline of the contents of this course, as specified by the faculty of Columbia College, regardless of who teaches the course, when it is taught or where it is taught. Faculty members teaching this course for Columbia College are expected to facilitate learning pursuant to the course objectives and cover the subjects listed in the topical outline. However, instructors are also encouraged to cover additional topics of interest so long as those topics are relevant to the course’s subject. The master syllabus is, therefore, prescriptive in nature but also allows for a diversity of individual approaches to course material.

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