Course Prefix and Number: BLGY 101L  Credit Hours: 1

Course Title: General Biology I Lab

Course Prerequisites/Corequisite: BLGY 101

Textbooks:  Mader, S.; Laboratory Manual: Biology, 12th edition

Course Description: Laboratory designed to supplement General Biology I for science majors. Withdrawal from lecture mandates withdrawal from laboratory.

Learning Outcomes:

At the end of this course students will:

A. demonstrate competency in the use of basic biological laboratory equipment; and
B. integrate data collected in the lab to interpret and support basic biological principles.

To achieve the learning outcomes, the student will:

1. practice safety and standard precautions in the laboratory. (A)
2. identify the parts of compound light and dissection microscopes and give the function of each part. (A)
3. utilize the compound light and dissection microscopes to study specimens in the laboratory. (A)
4. display and analyze data using appropriate scientific and mathematical tools. (A)
5. use scientific method to collect data and solve problems in a laboratory setting. (A)
6. utilize various metric measuring devices to accurately collect data. (A)
7. outline the steps of the scientific method. (B)
8. apply the scientific method to solve a problem. (B)
9. explain the relationship between a hypothesis, a theory, and a law. (B)
10. solve genetics problems using Punnett square. (monohybrid and dihybrid). (B)
11. explain the use of a testcross to determine the genotype of an individual. (B)
12. describe the normal chromosomes makeup of human males and females. (B)
13. solve problems involving various inheritance patterns. (B)
14. explain the 4 areas of support for the theory of evolution. (B)
15. complete a photosynthesis case study, that requires the student to locate and identify main ideas and important concepts, paraphrase and summarize information, comprehend scientific terminology, interpret graphical data, and answer questions gained through reading. (B)
16. complete lab report questions for the chemical composition lab that requires the student to think critically. (B)

**Course Requirements:** To earn a grade of “C” or higher the student must earn 70% of the total points for the course and meet all of the following course requirements.

- minimum average of 50% on lab practical exams

**Course Grading Scale:**

A- 90% or more of the total points possible for the semester; and meet all minimum course requirements

B- 80% or more of the total points possible for the semester; and meet all minimum course requirements

C- 70% or more of the total points possible for the semester; and meet all minimum course requirements

D- 60% or more of the total points possible for the semester; and meet all minimum course requirements.

F- less than 60% of the total points possible for the semester; and/or failure to meet one or more of the minimum course requirements

**Attendance Policy:** The college attendance policy is available at [http://www.bpcc.edu/catalog/current/academicpolicies.html](http://www.bpcc.edu/catalog/current/academicpolicies.html)

**Course Fees:** This course is accompanied with an additional non-refundable fee for supplemental materials, laboratory supplies, certification exams and/or clinical fees.

**Nondiscrimination Statement**

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Title VI, Section 504, and ADA Coordinator  
Sarah Culpepper, Coordinator  
Disability Services, D-112  
6220 East Texas Street  
Bossier City, LA 71111
Phone: 318-678-6539
Email: sculpepper@bpcc.edu
Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.

Equity/Compliance Coordinator
Teri Bashara, Director of Human Resources
Human Resources Office, A-105
6220 East Texas Street
Bossier City, LA 71111
Phone: 318-678-6056
Hours: 8:00 a.m.-4:30 p.m. Monday - Friday, excluding holidays and weekends.

Reviewed by T. Bryan/ April 2017