Bossier Parish Community
Master Syllabus

Course and Prefix Number: BLGY 102L **Credit Hours: 1**

Course Title: General Biology II Lab

Course Prerequisites/Corequisite: BLGY 102 or equivalent

Textbook: Mader, Sylvia; Laboratory Manual: Biology, 13th edition

Course Description:
Laboratory designed to supplement General Biology II for science majors. Withdrawal from lecture mandates withdrawal from laboratory. The Louisiana Statewide Common Course Catalog name and number for this course are CBIO 1041: General Biology II Lab (Science Majors).

Learning Outcomes:

At the end of this course, the student will

A. use the compound light microscope and other basic biological laboratory equipment to examine and identify specimens and to test biological concepts; and
B. predict characteristics of organisms and their role in the biosphere based on knowledge of the major divisions of plants, animals, and fungi.

To achieve the learning outcomes, the student will

1. describe prokaryotic cells. (A,B)
2. classify bacteria by shape. (A,B)
3. describe the general biology of protists. (A,B)
4. use a light microscope to observe protists. (A, B)
5. classify protists according to their modes of motion and nutrition. (A,B)
6. identify algae species in the laboratory. (A, B)
7. compare fungi according to aspects of their sexual life cycle. (A, B)
8. observe the characteristics of fungi. (A, B)
9. observe the characteristics of nonvascular plants. (A, B)
10. observe the characteristics of vascular plants. (A, B)
11. observe the characteristics of seedless vascular plants. (A,B)
12. identify the characteristic of seed plants. (A, B)
13. compare the characteristics of gymnosperms and angiosperms. (A,B)
14. identify plant species in the laboratory. (A,B)
15. identify the parts of a flower in the laboratory. (A,B)
16. compare monocot and eudicot plants. (A, B)

17. identify plant tissues in the laboratory. (A, B)
18. describe the organization of roots, stems, and leaves. (A,B)
19. compare the reproductive strategies of plants. (A, B)
20. compare sexual and asexual reproduction in plants. (A, B)
21. identify the different fruit types and mechanisms of seed dispersal. (A, B)
22. distinguish between invertebrates and vertebrates. (A,B)
23. list the major phyla of invertebrates and identify examples of each. (A,B)
24. identify and describe common invertebrate species in the laboratory. (A, B)
25. identify and describe different types of mollusks. (A,B)
26. identify and describe different types of annelids. (A,B)
27. identify and describe different types of arthropods. (A,B)
28. identify and describe different types of echinoderms. (A,B)
29. compare the features seen in the jawless fish, fishes, amphibian, reptiles, birds, and mammals. (A,B)
30. identify the major animal tissues. (A,B)
31. list and identify the major bones of the human skeleton. (B)
32. list and identify the major muscles of the human body. (B)
33. identify the parts of the human digestive tract. (B)
34. identify the parts of a human heart. (B)
35. identify the major parts of the human reproductive systems. (B)
36. identify the major parts of the human urinary system. (B)
37. identify the major parts of the human nervous system including the brain, eye, and ear. (B)
38. identify the major organs of a common vertebrate such as the frog. (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 <u>all</u> 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; <u>and</u> meet all minimum course requirements

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

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

D- 60% or more of the total points possible for the semester; <u>and</u> 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

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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Equity/Compliance Coordinator
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Reviewed by T. Bryan / March 2019