

### Course Description:

#### **Bio 1020L Biodiversity Lab**

**Bio 1010.** This course cannot be taken for credit toward the major in biology. An introduction to the diversity of life with a special emphasis on ecological and evolutionary processes and relationships.

**Objectives:** This course is designed to accompany Bio 1010 by presenting exercises that emphasize an introduction to the diversity of life on Earth with a special emphasis on ecological and evolutionary processes and relationships. Students will participate in scientific inquiry by asking scientific questions, developing hypotheses, predicting outcomes of experiments, and interpreting data and drawing conclusions from the results.

Students will demonstrate understanding of the physical universe and the nature of science, and they will use scientific methods and/or mathematical reasoning and concepts to solve problems.

**(MANDATORY):** Biology 1020L Biodiversity Lab: The Evolution and Diversity of Life by Teresa H. Doscher. It can be purchased at the VSU Bookstore. It is a loose leaf, 3 hole punched manual so you will need to put it in a small 3 ring binder along with some extra loose leaf paper for taking notes.

This class will also use the following text. The text is available free online in a variety of formats and a print version or mobile app are available to purchase. This text is not mandatory but will be helpful and it is free.

**Textbook:** Concepts of Biology from OpenStax College, ISBN 1-938168-11-9, <https://openstaxcollege.org/textbooks/concepts-of-biology>

**Attendance:** Attendance in lab is mandatory. **If you do not attend your regular lab section, you must arrange to make-up the lab before the end of the week. This must be in the week the lab is scheduled. As per University policy; a student who misses more than 20% of the scheduled classes of a course will be subject to receiving a FAILING grade in the course. (3 missed labs) If you are 10 minutes late to lab, you will be turned away from the lab. It will be your responsibility to contact me after class to arrange your attendance in another lab.**

**Lab Make-up Policy:** The privilege of making up a lab is not guaranteed. A lab exercise **MAY ONLY BE MADE UP DURING THE WEEK IT IS SCHEDULED.** Students with lab scheduled late in the week must be especially cautious since the number of subsequent labs for the week may be few. Prior to attending another lab, **the student is responsible for obtaining written permission from BOTH his/her instructor and the other lab instructor. It is possible that the other instructor's lab is full and you will not be able to attend that lab.** If this procedure is not followed, the student will be turned away from the other lab. The student should remind the other lab instructor to give a note to his/her instructor verifying the student's attendance. The instructor will determine validity of excuses. **ONLY ONE (1) MAKE UP WILL BE ALLOWED PER SEMESTER.**

**Grading:** Your final grade will be determined by laboratory quizzes, laboratory reports, and homework assignments. Each of these will be worth 10 points. You will be told at the end of each lab what you will be responsible for the next lab period; whether it be a quiz, lab report, or homework to turn in. **Quizzes are given at the beginning of each lab.**

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sexual misconduct, and sexual violence by other employees, students or third parties and gender inequity or unfair treatment

**Fall 2022**  
**Biol 1020L Biodiversity Lab Schedule**

\*This is a tentative schedule subject to change at the instructor's discretion.

| <b>Week</b> | <b>Date</b>       | <b>Lab Exercise</b>   | <b>Pages</b>      |
|-------------|-------------------|---|-------------------|
| 1           | Aug. 15 - 19      | No lab the first week of classes                                  |                   |
| 2           | Aug. 22 - 25      | Syllabus / Laboratory Safety Guidelines / Laboratory Expectations |                   |
| 3           | Aug. 29 - Sept. 1 | Exercise 1: Taxonomy  | 1 - 8             |
| 4           | Sept. 5 -8        | <b>Labor Day Week - No labs this week</b>                         |                   |
| 5           | Sept. 12 - 15     | Exercise 9: Variation Among Mammals                               | 75 - 78           |
| 6           | Sept. 19 - 22     | Exercise 2: Microscopy<br>Exercise 3: Prokaryotes                 | 9 - 12<br>13 - 20 |
| 7           | Sept. 26 - 29     | Exercise 4: Protists  | 21 - 28           |
| 8           | Oct. 3 - 6        | Exercise 5: Fungi   | 29 - 36           |

