

Lab Book: Goulet. 2015. Biological Sciences 105, Inquiry into Life Laboratory Manual: Diversity & the Environment (2014-2015). REQUIRED.

BISC 105 - Syllabus

Labs meet Monday and Tuesday in Room 205. Each class will be divided into two groups (Red & Blue).

| LAB # | TEAM | DATE | LAB TOPIC | ASSIGNED WORK |
|-------|------------------|------------|--|--|
| LAB 1 | All Teams | Aug. 25-26 | Introduction, Policies, Clicker Training | |
| | | Sep. 1-2 | NO LABS | NO LABS |
| LAB 2 | All Teams | Sep. 8-9 | Scientific Method-Observations | In-class worksheet 1 (20 pts) |
| LAB 3 | Red Team | Sep. 15-16 | Natural Selection | Clicker Quiz 1 (20 pts) In-class worksheet 2 (40 pts) |
| | Blue team | Sep. 22-23 | Natural Selection | Clicker Quiz 1 (20 pts) In-class worksheet 2 (40 pts) |
| LAB 4 | Red Team | Sep. 29-30 | Microscopes and Cells | Clicker Quiz 2 (20 pts) In-class worksheet 3 (45 pts) Homework #1 (20 pts) |
| | Blue team | Oct. 6-7 | Microscopes and Cells | Clicker Quiz 2 (20 pts) In-class worksheet 3 (45 pts) Homework #1 (20 pts) |
| LAB 5 | Red Team | Oct. 13-14 | Campus Trees (pg. 79) | Clicker Quiz 3 (20 pts) In-class worksheet 4 (55 pts) |
| | Blue team | Oct. 20-21 | Campus Trees (pg. 79) | Clicker Quiz 3 (20 pts) In-class worksheet 4 (55 pts) |
| LAB 6 | Red Team | Oct. 27-28 | The Protista | Clicker Quiz 4 (20 pts) In-class worksheet 5 (55 pts) |
| | Blue team | Nov. 3-4 | The Protista | Clicker Quiz 4 In-class worksheet 5 (55 pts) |
| LAB 7 | Red Team | Nov. 10-11 | Animal Diversity | Clicker Quiz 5 (20 pts) In-class worksheet 6 (50 pts) Homework #2 (40 pts) |
| | Blue team | Nov. 17-18 | Animal Diversity | Clicker Quiz 5 (20 pts) In-class worksheet 6 (50 pts) Homework #2 (40 pts) |
| | | Nov. 24-25 | NO LAB - THANKSGIVING | |
| LAB 8 | All Teams | Dec. 1-2 | Presentations | Student Presentations (75 pts) |

Learning Objectives for the lab

1. Students will have an understanding of the ecology and evolution of plants and animals. We want students to have an understanding of human beings connect with our environment.
2. Students will understand several aspects of scientific methods including hypothesis testing and the use of observation skills. Students will be able to use that understanding in addressing topics of current environmental and ecological interest.
3. Students will be able to use a microscope effectively.
4. Students will be able to identify campus trees and common protests.
5. Students should understand basic animal and plant structure and should be able to explain how natural selection works.
6. Students will be able to do an effective oral presentation.

Worksheets/Quizzes/Homework

Each lab meeting includes reading the laboratory chapter assigned for that week and completing the assigned work. Work in lab will include completing a worksheet and taking a quiz. The quiz will be based on the reading that should be done in preparation for the lab. Homework is due at the beginning of the lab period after it was assigned. Homework turned in after the start of the lab will be considered late, and will be assigned half credit.

Presentation requirements

All BISC 105 students are required to do a presentation. The project counts for 75 points and requires an oral presentation, a written outline, and a list of citations. This is a group library research project. The topic must be centered on some aspect of biodiversity or an environmental topic. Your TA will assign groups (3 students) and projects. Presentations will be 10 minutes long during the last class meeting.

Clicker Policy

- A. You are responsible for the following:
 1. Bringing your clicker to every lab.
 2. That your clicker is operating, including having enough battery power for an entire class. If your clicker is not in operating order, you will receive a zero (0) for that assignment. If your clicker malfunctions during an assignment, you may write your answers on a piece of paper and hand it in.
 3. That your student ID is correct inside your clicker. If your student ID is incorrect, this will be considered tampering with the clicker, which is considered a form of cheating. The Academic Dishonesty/Misconduct guidelines (see below) will be followed.
 4. That you use **ONLY** the clicker that is registered with this class. Using a different unregistered clicker will be considered cheating and the Academic Dishonesty/Misconduct guidelines (see below) will be followed. If you change your clicker, you **must** inform the instructor **BEFORE** taking the test.
 5. That you join the correct class. If you join the wrong class your grade will be very low, often zero (0). The grade recorded by the software for your class is the grade you will receive.
- B. All grades associated with clicker assignments will **ONLY** be determined from the clicker responses entered and are **FINAL**.

Laboratory Make up Policy

Due to the nature of laboratories, it is **not possible** for a student to make up a laboratory. If a student misses a laboratory for any reason, the student **must contact their TA immediately**. If labs are still running that week, it may be possible to join the Blue team, or attend a different lab section. If you have a **legitimate excuse** for missing the lab, you must **contact your TA within one week** to schedule a make-up. If **more than one week has passed** after the lab has been conducted, then **there will be no possibility to make up the missed Lab, even for legitimate excuses**.

Class Conduct

- A. Cell phones must be turned **OFF**, not on vibrate, etc. No texting during class or any time during the laboratory period.
- B. No leaving the classroom for any reason during the lab. If you need to go to the bathroom, go **BEFORE** the class starts.
- C. If you have a question about a grade, you have one (1) week from the date of posting (i.e. on Blackboard) to discuss the matter with your TA. If you wait longer than 1 week there will be **NO** change possible.

Academic Dishonesty/Misconduct

We will enforce a **zero-tolerance towards cheating** on any clicker quizzes, or assignments. **Cheating with clickers**, such as tampering with the clicker (e.g. changing ID number, etc.), clicking from outside the testing room, using two clickers at the same time, using a different unregistered clicker, etc. **will not be tolerated**. **Copying or plagiarizing will not be tolerated**. If caught cheating, copying or plagiarizing, you will **automatically FAIL the course** and you will be reported to the university's Academic Discipline Committee for disciplinary actions.

Lab Sections Offered

| Time | Monday Sections | Tuesday Sections |
|----------------|-----------------|------------------|
| 10:00-11:50 AM | 1 | 5 |
| 12:00-1:50 PM | 2 | 6 |
| 2:00-3:50 PM | 3 | 7 |

From the Office of Student Disability Services

It is University policy to provide, on a flexible and individual basis, reasonable accommodations to students who have disabilities that may affect their ability to participate in course activities or meet course requirements. Students with disabilities, which have been verified through the [Office of Student Disability Services](#) (915-7128), are encouraged to contact their instructors to discuss their individual needs for accommodations.

| Teaching Assistant: | The following percentages will earn these grades: | |
|---------------------|---|---|
| Office: | 450-500 points | A |
| Office Hours: | 400-449 points | B |
| Email: | 350-399 points | C |
| | 300-349 points | D |
| | < 299 points | F |

Coordinator of Laboratory Programs: Dr. Denis Goulet

Office: Shoemaker 204
Office Hours: By appointment
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BISC 105 Grading

| | |
|--------------------------|-------------------|
| Quizzes | 100 points |
| In-class worksheets | 265 points |
| Homework | 60 points |
| Independent Presentation | 75 points |
| Total | 500 points |

