

# BIOL 1108 Principles of Biology II Laboratory Syllabus (Spring 2016)

**Instructor:** Dr. Gretchen K. Bielmyer-Fraser

**Office:** BC 1097

**Office hours:** Tues. 11:30-12:30 pm; or by appointment

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## Lab (BC 1073)

**Text: Biology Lab Manual (ISBN #: 9781680750201)**

### Lab Conduct:

- Arrive on time. Assignments are due at the start of lab. Students arriving 10 minutes late will not be able to turn in assignments and will receive a zero (0) on those assignments
- It is strongly advised to maintain a laboratory notebook with drawings, descriptions, data etc. of the laboratory exercises. The only requirements of the notebook are that it be a spiral bound notebook. The notebook will help you study for the practical exams.
- No eating or drinking during the lab.
- Attendance to lab is mandatory. Excused absences are usually given for medical emergencies and documentation must be provided; the professor determines whether or not an absence is "excused" or not. **If a student misses three labs for any reason the student cannot earn higher than a "D"** for his/her final grade. Except under extenuating circumstances, labs cannot be made up outside of scheduled laboratory sessions. Students are still responsible for all lab content even if they received an excused absence.
- Students must take care of lab equipment. Notify the professor if something is not working properly or if something breaks during the course of the lab
- Each student will be assigned a microscope. It is the student's responsibility to properly use the microscope. After lab the professor will check each scope to make sure that it was put away properly. Failure to do so will result in one point being subtracted from the student's total lab points (not the final percentage) each week it is not put away properly. Notify the professor if your microscope is not functioning properly.
- Cell phones are not allowed to be used in lab with the exception of using them as timers when necessary.

### Lab assignments and Lab Practical Exams:

Throughout the semester lab quizzes and assignments will be given (worth a total of **200 points**). Each assignment is due at the start of the following lab period. No late assignments will be accepted (see above).

Two lab practical exams will be given, one covering animals (**100 points**) and one covering plants (**100 points**). Questions may include microscope slides, whole specimens and a written component. Lab practical exams can only be taken the week they are scheduled.

A total of **400 points** is attainable in this laboratory.

## **TENTATIVE LAB SCHEDULE AND TOPICS**

<b>Week of January 11</b>	<b>NO LAB</b>
<b>Week of January 18</b>	<b>Introduction, Learn to Use Excel, Statistics (Meet in Computer Lab room 3018) (Lab 1)</b>
<b>Week of January 25</b>	<b>Lab 7 Diversity</b>
<b>Week of February 1</b>	<b>Lab 8 Diversity</b>
<b>Week of February 8</b>	<b>Lab 9 Vertebrate Animal Tissues</b>
<b>Week of February 15</b>	<b>Lab 10 Vertebrate Anatomy (fetal pig)</b>
<b>Week of February 22</b>	<b>Lab 11 Sensory Systems; Excretory Systems</b>
<b>Week of February 29</b>	<b>Lab 12 Cardiovascular System</b>
<b><u>Week of March 7</u></b>	<b><u>LAB PRACTICAL</u></b>
<b><u>Week of March 14</u></b>	<b><u>NO LAB - SPRING BREAK</u></b>
<b>Week of March 21</b>	<b>Lab 2 Non-Vascular Plants</b>
<b>Week of March 28</b>	<b>Lab 3 Vascular Land Plants</b>
<b>Week of April 4</b>	<b>Lab 4 Plant cells, vegetative organs, patterns of growth</b>
<b>Week of April 11</b>	<b>Lab 5 Angiosperm Development</b>
<b>Week of April 18</b>	<b>Lab 6 Growth and Transpiration</b>
<b><u>Week of April 25</u></b>	<b><u>LAB PRACTICAL</u></b>