

BIOL 1108 Principles of Biology II Laboratory Syllabus

Sections E (11 am Wed) and F (2:30 Wed) Lab Room (BC 1085)
John Elder -2088 Bailey Science Center Office Hours: 9-11 am Wed

Text: Grove, T. 2011. Principles of Biology Lab Manual for BIOL 1108.

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 assignments will be given. These assignments are 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 and one covering plants. Questions may include microscope slides, whole specimens and a written component. Lab practical exams can only be taken the week they are scheduled.

TENTATIVE LAB SCHEDULE AND TOPICS

Week of January 10	Introduction and Learn to Use Excel (Meet in Computer Lab room 3018) (Lab 1)
Week of January 17	NO LAB
Week of January 24	Diversity: Porifera and Cnidaria (Lab 8) Vertebrate Animal Tissues
Week of January 31	Diversity: Platyhelminthes (Lab 9) Vertebrate Anatomy
Week of February 7	Diversity: Annelida and Mollusca (Lab 10) Sensory Systems and Muscle Structure and Function
Week of February 14	Diversity: Nematoda and Arthropoda (Lab 11) Cardiovascular System
Week of February 21	Diversity: Echinodermata and Chordata (Lab 6) Digestive System and Excretory Systems
Week of February 28	LAB PRACTICAL
Week of March 7	NonTracheophytes (Seedless Plants) (Lab 2)
Week of March 14	NO CLASS SPRING BREAK
Week of March 21	Tracheophytes (Vascular Land Plants) (Lab 3)
Week of March 28	Roots, stems and leaves (Lab 4)
Week of April 4	Angiosperm Development (Lab 5)
Week of April 11	Growth and Transpiration (Lab 6)
Week of April 18	Pollution: Effects of Chemical, Thermal and Acid Pollution (Lab 7)
Week of April 25	LAB PRACTICAL