

BIOLOGY 201
GENERAL BIOLOGY I
Laboratory Schedule

Laboratory Manual: General Biology Laboratory Manual
Investigations into Life's Phenomena
Skavaryl, Finnen, Lawton

<u>Experiment</u>	<u>Title</u>
1	Microscopy
3	Organic Compounds
5	Diffusion, Osmosis and Biological membranes
Handout	Enzyme Action
7	Cellular Respiration and Anaerobic Pathway
8	Photosynthesis
<u>Mid-Term Exam</u>	
9 & 10	Mitosis and Meiosis
29	Population Genetics and Natural Selection
14	Monera and Protista
15	Fungi
17	Animal Life, Lower Invertebrates
17	Animal Life, Higher Invertebrates

Final Practical Exam

REFERENCES:

The following references are on closed reserve in the Science Library:

1. A Guide to Biology Lab. 3rd Edition, by Thomas G. Rust.
2. A Photographic Atlas for the Biology Laboratory,
by K.M. Van De Graaff & J.L. Crawley.

The following are favorite websites that will help you revise for your practical exams:

<http://www.spc.cc.tx.us/biology/jmckinney/Studyimages/ascaris/ascarisdissectlist.html>
<http://www.park.edu/bhoffman/courses/bi225/slides/fungislides.htm>
<http://www.park.edu/bhoffman/courses/bi225/slides/fungislides.htm>
<http://www.uoguelph.ca/zoology/devobio/splab1/index.htm>
http://biog-101-104.bio.cornell.edu/BioG101_104/tutorials/animals/clam.html
http://biog-101-104.bio.cornell.edu/BioG101_104/tutorials/animals/earthworm.html
http://biog-101-104.bio.cornell.edu/BioG101_104/tutorials/animals/crayfish.html
<http://www.aa.psu.edu/div/mns/biology/crayfish/crayfishtable.htm>
<http://www.usd.edu/biol/labs/151/monera51.htm>

Laboratory Goals: In the first part of the lab you will have the opportunity to administer many experiments that will help you understand the concepts covered in the lecture

while
in the second half of the lab you will have the chance to examine many of the
organisms
discussed in the lecture. You will also become aware of many curious and little
known
organisms with whom you share this planet.

Laboratory Guidelines:

- **You must complete all assigned work during the regular laboratory period.**
- **There will be no makeup labs.** You must attend the section you are registered for. If you are unable to attend your usual lab session due to an accident or illness, we can sometimes place you in a different section for that week, pending the approval TA concerned. BUT you will need a written note or email from your academic advisor, or your physician explaining your absence from your usual lab section. We will NOT schedule makeup labs for social events or travel convenience. You must notify the instructor as soon as possible if you need to reschedule a lab. **Any student who misses three laboratory sessions will be asked to withdraw from the course.**
- **Quizzes.** You will be given a total of five-drop quizzes. You will be asked questions about the previous labs and the lab lecture of that week's lab session.
- **There will be no regular makeup quizzes.** Makeup for lab quizzes will be given only at the discretion of your TA, and must be arranged with your TA in advance.
Exams are tailored to the material emphasized in each individual section.
Taking a
quiz in another section, even with a legitimate medical excuse, could result in a substantially lower score.
- **Be prepared when you come to lab.** Read the lab guide in advance, to ease the osmosis of knowledge. Read through it as you examine the slides and specimens. The lab guide also contains step by step instructions for the dissections. Bring your lab atlas to class and compare the photos etc. to the specimens you'll see in lab. Exam questions are often based on recognition and recall, and the atlas can help you remember what you saw in lab.
- **Clean your station thoroughly before you leave.** Your area must be clean, your microscope properly stored, and all display materials returned to wherever you found them. Take only one or two slides at a time from the display area (some are in short supply) and be sure to return them to the proper tray.
- All plant and animal matter goes into a special garbage container (near the sinks). Do not put arms, legs, lower life forms, pieces of plants, etc. into the regular trash containers. Dispose of slides and other glassware ONLY in the container provided.
- You will be held responsible for any damage you do to the microscopes or to the

lab instructor!! Don't try to rush through the exercises — remember that everyone in lab is playing with sharp knives and small pieces of glass. No running around the room with scissors!

- **Have fun. Labs shouldn't be a grind.** This will be your first (and perhaps only) chance to see many of the strange and interesting creatures with whom we share this planet. So tease a worm - tickle a clam - annoy a grasshopper! Unless the display material labels or TA says otherwise, the first rule in lab is handle (with care).

Grading: The laboratory is worth 25% of your course grade, which will be divided as follows:

10%	Lab midterm
10%	Lab final
5%	Drop quizzes