

BIOLOGY 202
GENERAL BIOLOGY II
Laboratory Schedule

Laboratory Manual: General Biology Laboratory Manual.
"Investigations into Life's Phenomena"
Skavaril, Finnen, Lawton.

<u>Topic</u>	<u>Title</u>
16	Lower Plants, mosses, liverworts ...
-	Plant Tissues
18	Plant Anatomy (stems)
18	Plant Anatomy (Roots and Leaves)
19	Reproduction and Development In Complex Plants
20	Plant Hormones and Responses
Mid-term Practical Exam	
21	Animal tissues
22	Mammalian Skeletal and Muscular System
24, 25	Mammalian External Anatomy & Digestive System
25, 27	Excretory and Reproductive system
26	Mammalian Heart and Circulatory System
23	Mammalian Nervous System
Final Practical Exam	

SUGGESTED REFERENCE:

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

1. **A Guide to Biology Lab. 3rd Ed., by Thomas G. Rust.**
2. **A Photographic Atlas for the Biology Laboratory by K.M. Van De Graaff & J.L. Crawley.**
3. **Guide and Atlas to the Fetal Pig by D.G. Smith et al.**

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

<http://www.tulane.edu/~bfleury/diversity/diversity.htm>

<http://www.tulane.edu/~bfleury/diversity/labguide/mollannel.htm>

<http://www.whitman.edu/biology/vpd/>

<http://www.execulink.com/~ekimmel/fetal0.htm>

<http://www.marymount.k12.ny.us/marynet/stwbwk02/frog/html/muscultf.htm>

Laboratory Goals: In the first part of the lab you will have the opportunity to examine a lot of plant sections that will help you understand the anatomy of the most important

organisms on earth "**Plants**". In the second half of the lab you will have the chance to dissect a fetal pig and study all the systems in the pig, that are extremely similar to what is there in man.

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..
- **Quizzes.** You will be given a total of three to 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 slides of the most valuable organism with whom we share this planet. 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 such:

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