Spring Semester 2006

Biology 111
Molecules, Genes, & Cells

Study Guide
& Lab Manual

to accompany Life: The Science of Biology, 7th ed., by Purves et al.

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Notes on Using The Biology 111 Study Guide

The format for Biology 111 at Davidson College is very different from most introductory courses. Although we will cover similar material as traditional introductory biology classes do, we will cover the material in a different order. We will learn information in the context of interesting questions and on a “need-to-know” basis. It may take you a little time to adjust to this format, but this approach is very similar to the way you normally learn in your “real” life. You don’t read an encyclopedia just to learn, you look up a particular topic about which you want to know more. Therefore, we will use the Purves et al. textbook as a reference source in conjunction with this Study Guide. The Study Guide contains important information as well as points to sections in the text to read.

This Study Guide includes four types of reading assignments that should be read before class.

1) 🎯 Overview Reading – skim quickly to get an idea of the context (if you’re really pressed for time – look at the topic headings and/or figures to get an idea of the material)

2) 📖 Focused Reading -- read carefully and learn the material presented

3) 🌐 Web Reading – read the web pages carefully

4) 🌼 News Items – read these at your leisure – they illustrate current biological research

You should be able to answer the study questions found throughout this Study Guide, but you do not need to turn in written answers in to your instructor. Some of these questions will be discussed in class (so be prepared to answer them in class) and your exam questions may resemble some of the Study Guide questions (hint, hint).

This Study Guide was first created by Dr. Jan Serie of Macalester College with support from the Howard Hughes Medical Institute. Special thanks go to Sarah Davis, ’05 and Dr. Sarah Webster for their suggestions. It is a community document that is revised every semester with input from Davidson Bio 111 students and faculty. Consequently, your input is very valuable in this process. If you notice an interesting example of biology in the news that would make a good “news item,” have suggestions for improving the Study Guide, and/or notice typos, please forward your comments to your professor or to Dr. Lom (balom@davidson.edu).

Web reading mentioned throughout this Study Guide can be found at: www.bio.davidson.edu/bio111

Supplemental files, animated tutorials, flashcards, etc. for the Purves et al. textbook can be found at: thelifewire.com
(select the 7th edition with lions on cover)

This Study Guide is also available for downloading at: www.bio.davidson.edu/courses/Bio111/studyguide.html