

BIOLOGY I—A LA CARTE

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Course Overview:

This is Science Shepherd's Biology course. This course encompasses cell structure and function, cell reproduction and genetics, organism classification (including the division of bacteria into Archaeobacteria and Eubacteria), and representative anatomy and physiology of organisms from the 6 taxonomic kingdoms, concluding with a lesson on Ecology. We will be extensively going through the steps of the scientific method in a personal research project with the opportunity to participate in a local science fair. Our textbook also contains a summary of the 11 human organ systems. We will not be covering these in detail presuming that students will have studied this information in General Science.

Lab hours will be incorporated into our 1 1/2 hour class time with dissections performed at appropriate times to augment learning in the textbook and lab manual. During lab time, we will dissect the earthworm, crayfish, frog and fetal pig. In addition, we will perform blood typing (optional), and observe the process of DNA fingerprinting.

Prerequisites:

General Science equivalent to Apologia's General course
Physical Science equivalent to Apologia's General course

Requirements:

Commitment to studying 4-5 hours per week and attendance at all outside labs.

Summer Reading and research: Chapters 17-19***I will explain this in an email to all new students.
This course is recommended for students in grades 9-12

Course Costs / Fees:

\$450 per year course and lab included
\$50 copy fee (for additional material)

Text and Course Materials-to be supplied by student:

**Science Shepherd Biology, 2nd Edition. 3 book set (Text, Parent Guide and Test Booklet).
by Scott Hardin, MD**

ISBN: 978-0-9828568-4-0

\$85.00 at the link below

<http://www.scienceshepherd.com/product/biology-3-book-set/>

Resources:

Join Napier A la Carte Biology Class at www.quizlet.com. I will create vocabulary flash cards for you to study. **This is a free program.**

Join Khan Academy to make use of free science tutorial videos. I will assign some of these to watch as homework. This is a great site for math help, as well!