

# High School Biology

Matt Sanders

## Course Philosophy

Science is most exciting (and most truthful) when it is taught and learned in the context of our awesome Creator. His creation reflects the majesty, wisdom, and power of God. Unfortunately, secular science is often taught in such a way as to become a stumbling block to the development of our faith. Science can instead be a stepping-stone to faith – the evidence for design is everywhere! This will be highlighted in almost everything we study.

## Course Overview

This course is taught from a Creation/Design perspective. Topics will include the five kingdoms of life, the chemistry of life, cell structure and function, genetics, ecology, evolution (as a theory), as well as plant, animal, and human biology. Each week we will have a lecture/discussion period (generally using Keynote slides), followed by a lab. Labs in the first semester focus on microscope work, and in the second semester focus on dissections. All lab materials and the lab manual are included in the course tuition.

## Books (2)

*Exploring Creation with Biology*, 2nd Ed., Apologia (ISBN 978-1-932012-54-5)  
*Solutions and Tests for Exploring Creation with Biology*, 2nd Ed., Apologia  
(ISBN 1-932012-55-9)

## Grading Plan

10% Attitude  
30% Homework  
30% Lab Work  
30% Tests

**ThinkWave** – we will use this excellent website for homework and grades. Students and parents can always see what is assigned, when it is due, which assignments are finished or not, grades that have been earned on all assignments and tests, and the student's cumulative grade.

**ClassMarker** – we will use this website for testing, since our class time is so limited. There will be a test on each chapter, approximately every two weeks. Parents are expected to monitor test-taking to avoid cheating. After the test, students and parents can see the score, as well as the correct answers on any missed questions.

(Bio Syllabus, p. 2)

## **Course Plan**

<u>Week of</u>	<u>Topic</u>
Sept 9, 16, 23	Biology: The Study of Life
Sept 30	Kingdom Monera
Oct 7	Kingdom Protista
Oct 14	Kingdom Fungi
Oct 21 and 28	The Chemistry of Life
Nov 4 and 11	The Cell
Nov 18	Cellular Reproduction and DNA
Nov 25	(Thanksgiving Break)
Dec 2	Cellular Reproduction and DNA
Dec 9 and Jan 6	Mendelian Genetics
Jan 13 and 20	Evolution: Part Theory, Part Hypothesis
Jan 27 and Feb 3	Ecology
Feb 10	Kingdom Animalia: Invertebrates
Feb 17	(Break)
Feb 24	Kingdom Animalia: Invertebrates
Mar 2 and 9	Phylum Arthropoda
Mar 16 and 23	Phylum Chordata
Mar 30 and Apr 6	Kingdom Plantae
Apr 13	(Break)
Apr 20 and 27	Reptiles, Birds, and Mammals
May 4, 11, and 18	Human Biology