

# CURRICULUM INFORMATION



## Exploring Creation With Biology

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Apologia Educational Ministries, Inc. is proud to present the second edition of its Exploring Creation With Biology course. The first edition has been used by thousands of students in all 50 states and 13 other countries. Now, this award-winning biology course is even better!

### **Scope:**

Exploring Creation With Biology is a college-prep biology course that provides a detailed introduction to the methods and concepts of general biology. Heavily emphasizing the vocabulary of biology, it provides the student with a strong background in the scientific method, the five-kingdom classification scheme, microscopy, biochemistry, cellular biology, molecular and Mendelian genetics, evolution, dissection, and ecosystems. It also provides a complete survey of the five kingdoms in Creation. Please note that this course does not contain a discussion of human anatomy and physiology. Most college biology professors do not consider it to be a part of a solid, college-prep biology course. Human anatomy and physiology is such a detailed subject that it merits an entire high school course (see our advanced biology course).

“I currently have two 9<sup>th</sup> grade sons who are taking your Biology course independently via the CD-ROM. I wavered as to whether I should purchase the book or the CD - am I ever grateful we have the CD! The video clips are outstanding and well worth the price - which is actually lower than the book – go figure! The clarity of your text couldn’t be finer. It’s quite challenging for them, but they are doing fine. Thanks for a great biology course!” (Parent)

### **Methodology:**

This course was written specifically for homeschoolers. It is designed with the idea that the student is working alone with the course. This means that all of the explanation that a teacher would normally give orally in class is included in the book, step by step. This is also why the course is written conversationally, to make the student feel like someone is speaking directly to him or her. Here is what parents and students have said about our courses:

“This is the first time in our homeschooling experience that my child is completely on his own learning a subject that I know little about. . . Thank you for a great course!” (Parent)

“I’m writing to thank you on writing a very interesting science book. I love how you say things in first person. It makes it feel like you were right there beside me.” (Student)

### **Labs:**

Exploring Creation with Biology contain 3 different types of labs: microscope labs, dissection labs, and household labs. The household labs use only household equipment and should definitely be done. The microscope labs, however, require expensive equipment, and the dissection labs require an additional kit. Therefore, we do not *require* that students perform these labs, though they are very beneficial.

In order for students to count the course as a laboratory science they must complete at least 2 of the 3 different types of experiments. For example, the student could do all of the household labs **and** all of the dissection labs (this is the least expensive route).

Labs include topics such as Pond Life, algae, molds, fungi, diffusion, osmosis, cell structure, mitosis, sex-linked genetic traits, insect classification, leaf collection and identification, flower anatomy, bird identification, four dissections (earthworm, crayfish, frog, and perch) and much more.

### **Pacing:**

This text contains 16 modules. Each module should take you about 2 weeks to complete, as long as you devote 45 minutes to an hour of every school day to studying biology. The one exception to this rule is Module #6, which will take you three weeks to complete. At this pace, you will complete the course in 33 weeks. Since most people have school years that are longer than 33 weeks, there is some built-in “flex time.” You should not rush through a module just to make sure that you complete it in 2 weeks. Set that as a goal, but be flexible. Some of the modules might come harder to you than others. On those modules, take more time on the subject matter.

### **Pre-Requisites:**

This course has no formal pre-requisites. This course is designed to be the student’s first high school science course. Typically, we recommend that the student take this course during the same year that he or she is taking Algebra 1.

Students who take and understand this course will be very well prepared for a tough university biology course.

### **Second Edition Updates:**

The second edition of our biology course has several features that enhance the value of the course:

- ❖ There is more color in this edition as compared to the previous edition, and many of the drawings that are in the first edition have been replaced by pictures or higher-quality drawings. This is especially true for the sections in which microscopic structures are discussed.
- ❖ Dr. Wile has been answering student questions on the course for six years. Those questions have allowed him to realize what sections of the book could be written more clearly. Thus, this edition of the biology course is even more understandable than the first edition!
- ❖ More topics have been added, such as a discussion of the proposed changes to the standard system of taxonomy. In addition, more details have been added on many topics.
- ❖ Some of the experiments have been changed to make them even more interesting and easy to perform.
- ❖ There is a course website that has links to materials which provide extra help as well as interesting news related to biology.
- ❖ Advanced students who have the time and the ability for additional learning are directed to online resources that will give them access to advanced subject matter.
- ❖ The student text has graphic icons that tell the student when there is a related multimedia presentation on the optional multimedia CD.
- ❖ To aid the student in reviewing the course as a whole, there is an appendix that contains questions which cover the entire course. The solutions and tests manual has the answers to those questions.
- ❖ There are cumulative tests in the solutions and tests guide if the parent/teacher wants to give the student quarterly, semester, or final exams.
- ❖ Finally, even though the module tests are found in the solutions and tests manual (so that the parent/teacher always has a copy of them), a second set of tests is also provided in a perforated booklet. This will allow the student to be given the tests without referring to the solutions and tests manual.

Please note that because of the differences between the first and second editions, students in a group setting cannot use both. They must all have the same edition. Because of this, the first edition of the course will still be available for those in schools or support groups that use the first edition.

**Available Formats:**

Biology	ISBN	Price
Text Book Set	1-932012-57-5	\$ 85.00
Text Book Only	1-932012-54-0	\$ 65.00
Test/Solutions Only	1-932012-55-9	\$ 20.00
Full Course CD-Rom	1-932012-62-1	\$ 65.00

Biology	ISBN	Price
Companion CD	1-932012-63-X	\$ 15.00
Audio CD	1-932012-65-6	\$ 15.00
Test Booklet	1-932012-56-7	\$ 5.00

For links to more information about course formats, please look under the Biology course heading at [www.apologia.com](http://www.apologia.com).

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