

Biology with Labs

Instructor: Ruth Caldwell

Grade Level: 9-12

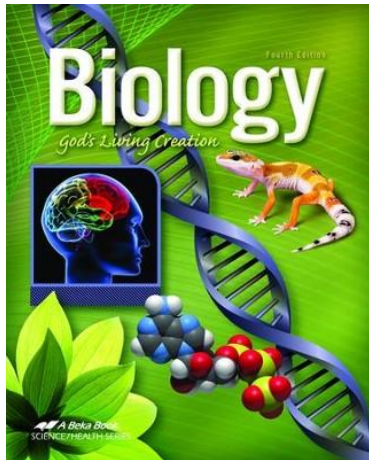
Tuition: \$330 (½ due at registration, ½ due the first day of classes in the fall)

Credit: 1 Credit

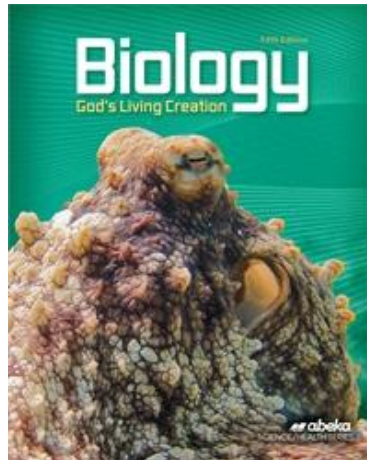
Prerequisites: None

Textbook: Abeka Biology: God's Living Creation 4th edition or 5th edition - **Required Purchase** (used or new is acceptable)

I will have several books available to be loaned out on a first come basis.

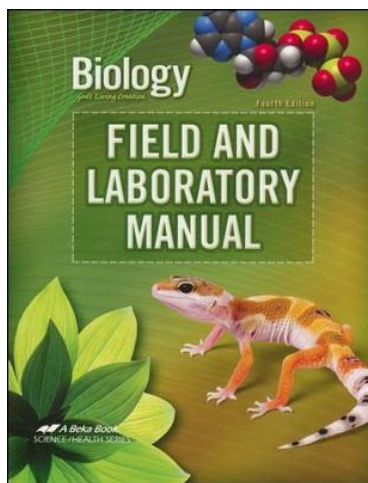


4th ed.

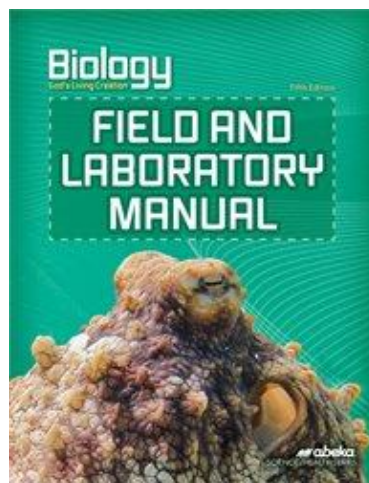


5th ed.

Lab Manual: Abeka Biology Field and Laboratory Manual 4th edition or 5th edition- **Required Purchase** (new required- used is acceptable only if it doesn't have writing. You will write in this book, so don't expect to reuse it.)



4th ed.



5th ed.

You can mix and match the book and lab manual editions as they are very similar.

Where books can be found: I would suggest looking on eBay or Amazon first. You can also find them on the websites Rainbow Resource and Christian Book. Used copies can also be found at Cedar Springs Christian Bookstore off N. Peters Road.

Materials: All lab equipment will be provided by the teacher.

Average homework: 4-5 hours per week. There are questions that will be handed out for each chapter. These will be required to be turned in online every week through the Canvas platform. Labs will be turned in at the end of class after each lab is finished. Tests will be done at home.

Class structure: We will have a lecture time to start the class. We will also do some worksheets in class that will build on lecture material. The end of class will be spent doing labs. There are 24 chapters in the book, so we will cover approx. 1 chapter/week. Some chapters will be assigned more time based on the difficulty of the subject covered. Short videos (that you will watch at home) will be assigned for many of the topics.

Course Description: Biology comes from the Greek words *bios* (life) and *-logy* (the study of), so we will be studying the living world as God created it. From a Christian perspective we will study plants, human anatomy, cells, bacteria, and zoology (animals). This will give the students a general understanding of these and other topics. We will be doing dissections of different animals as we study them in class. Also, students will learn how to use the microscope to examine slides. Other labs include: inspecting plants and their parts, DNA extraction from peas, and others.