

Biology with Lab

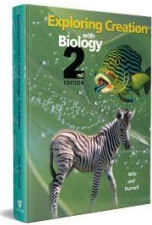
Jill Cooke

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

Credit: 1 credit

Prerequisites: none

Textbook: Apologia (2nd edition) Exploring Creation with Biology (ISBN 978-1-19320112-54-5)



Materials: All provided by teacher: Lab manual and study guides, Lab equipment: microscopic slides, dissection including earthworm, planarian, starfish, clam, grasshopper, crayfish, perch, frog, flowers/seeds/fruit/fungi – plant/animal cell molds – DNA extraction

Average homework: 4 hours/week, 1 hour/day Monday-Thursday. Every other week a study guide is assigned to go along with reading the text. This must be filled out by student as they are reading the text. Average study guide is 5 pages. The other week is labs and test – study guides need to be reviewed daily the week before the test and unfinished labs need to be completed and turned in.

Student expectations: To complete entire text, study guides, tests, dissections, and relevant lab experiments and reports. To give 2 class presentations (one each semester, short).

Course objectives/description:

- 1) To study the 5 Kingdoms of Biology as well as global warming, genetics, cellular structure, mitosis, meiosis, and evolution.
- 2) To complete text, study guides, and experiments along with viewing microscopic slides associated with “Exploring Creation with Biology”.
- 3) To understand and perform dissections on 8 animal specimens.
- 4) To encourage class participation with bi-yearly class reports and study guide input.
- 5) To motivate and encourage interest and the desire to learn and understand the study of Biology and its relevance to everyday life.
- 6) To lift up the Creator and His ways and design as related to the study of Science.
- 7) To promote each student’s participation and ownership of the learning process.