

Course Title: LIFE SCIENCE IA	Course Description
<p>Course No. 2353 Grade level: 7-12</p> <p>Text and Resource Options: A. <i>Wonders of Science: Land Animals</i>; Steck-Vaughn B. <i>Wonders of Science: The Human Body</i>; Steck-Vaughn</p>	<p>Course Value: *One Semester</p> <p>Credit Value: 1 – 5 credits</p>
<p align="center">Course Content: Key Content Standards and Course Objectives</p>	
<p>This course is based on a combination of the following life science standards:</p> <ol style="list-style-type: none"> Cell Biology: All living organisms are composed of cells (7-1a-f), a typical cell of any organism contains genetic instructions that specify its traits (7-2a-e), adaptations in physical structure or behavior may improve an organism’s chance for survival (3-3). Physiology: Plants and animals have predictable life cycles (2-2a-f), all organisms need energy and matter to live and grow (4-2a-c), plants and animals have structures for respirations, digestion, waste disposal and transport of materials (5-2a-g), the anatomy and physiology of plants and animals illustrate the complementary nature of structure and function (7-5a-g). Evolution: Biological evolution accounts for the diversity of species developed through gradual processes over many generations (7-3a-e), adaptations in physical structure or behavior may improve an organism’s chance for survival (3-3a-e), evidence from rocks allows us to understand the evolution of life on Earth (7-4a-g). Ecology: Organisms in ecosystems exchange energy and nutrients among themselves and with the environment (6-5a-e), sources of energy and materials differ in amounts, distribution, usefulness, and the time required for their formation (6-6a-c). Investigation and Experimentation: Students will ask meaningful questions and conduct careful investigations addressing the content of the above life science and standards. 	<p>This course will focus on the foundational standards from which the grades 9-12 Biology/Life life science standards are based. This course, along with Life Science IIB, can fulfill the Alternative Education’s Biology/Life Science requirement for the high school diploma. Note that some exploratory activities are used, but lack of facilities that conform to state safety guidelines for laboratories precludes many laboratory activities.</p> <p>*Open entry/open exit</p>
<p align="center">Methods of Study</p>	<p align="center">Evaluation of Performance Standards</p>
<ol style="list-style-type: none"> Students will complete all activities assigned. Students will participate in discussion with other class members and/or teacher. 	<ol style="list-style-type: none"> Students will complete all assignments with a minimum of 70% accuracy. The supervising teacher will be satisfied with the quality of the student’s work. The student must receive a minimum score of 70% on a teacher assigned final evaluation.

LIFE SCIENCE IA
Course Outline: 2353

I. Textbook Assignment Options:

A. *Wonders of Science: Land Animals (2.5 credits)*

- Read: Units 1-7.
- Complete: All exercises and Unit Review exercises.
- Complete one of the Extension Activities listed below

B. *Wonders of Science: The Human Body (2.5 credits)*

- Read: Units 1-8.
- Complete: All exercises and Unit Reviews.
- Complete one of the Extension Activities listed below.

II. Extension Activity Options:

1. Using the Internet, go to www.google.com and conduct research on one of the following topics related to Life Science:

- a. HIV/AIDS
- b. Blood Types
- c. Amphibians

Write a 1 paragraph summary based on your research. Use Writing Rubric SI.

2. Complete a PowerPoint presentation consisting of at least 3 slides that illustrates examples of animals classified as mammals. Include a Title/Cover page in your presentation.
3. Use the Internet (www.google.com) and/or the resource of your choice to learn about a “ball and socket joint”. Using Microsoft Word, type a 1 paragraph summary based on your findings. Be sure to include some examples of ball and socket joints in your paragraph. Use Writing Rubric SI.
4. Teacher generated activity, approved by the site administrator.

III. Evaluation

- See your teacher for a unit test.
- All Writing assignments must meet the proficient level of the rubric provided by the teacher.
- All textbook work must meet 70% accuracy level for a “C” grade.