

Trinity Christian Academy
Mr. D. Sturgis
2018-2019

10H Biology Syllabus

Course Description

This class will cover all of the major fields under the science of Biology, the study of life. The students will also cover in depth biological details on major biological principles. This class gives the students a general understanding of all living organisms and cells. It covers all different types of living systems and what sustains them. Students will write essays to explain these processes in great details. This class will also show the students how magnificently life was designed by our creator. It covers what living organisms are made of and how they function. This class will establish the fundamentals and in depth scientific understanding that will prepare the students for college science classes. The students will learn how to use and develop scientific hypothesis. Students will be responsible for explaining the data from their labs in scientific lab reports.

Major Topics

The Scientific Method, Chemistry, Organic Chemistry, Genetics, Modern Biology Technology, Biological Origins, Cytology, Mycology, Microbiology, Botany, Zoology, Ecology, Histology, and Anatomy and Physiology. Analyzing and Interpreting Data, Using Mathematics in Scientific Labs, Developing and Using Models, Explaining Complex Text, Planning and Carrying Out Investigations.

This year my classes will be working on using our strong education to help raise awareness and solve local environmental issues. We will be focusing on toxic algae, plastic waste, and the lionfish invasion. These projects are in direct accordance to a biblical view of creation and the responsibility of mankind.

Genesis 1:26b “let him (mankind) have dominion over the fish of the sea”

Supplies

Colored Pencils, Ruler, Lab Paper (Blank Copy Paper), Lab Notebook (Three-ring-binder, 1 inch or 1 1/2 inch)

Textbook

Stephen Nowicki, *Biology*, (Houghton Mifflin Harcourt, 2017).

Major Projects and Papers

- Q1-** Lab Notebook Due- 10/5
- Q2-** Lab Notebook Due- 12/7
- Q3-** Lab Notebook Due - 3/8
- Q4-** Lab Notebook Due- 5/9

Discipline Plan

Virtues:

- Show Good Judgment
- Practice Self-Restraint
- Exhibit Courage
- Demonstrate Fairness

Rules:

- No disrespect to authority or other students.
- No verbal or physical altercations.
- No sleeping or appearing to be sleeping in class.
- No cheating.
- Follow the school dress code.

Consequences:

- Warning
- Modified seating chart/loss of privileges/email home
- Office referral

Grading

50% -Tests / Major Projects

35% -Quizzes

15% - Homework / Daily Work

Office Hours/Contact

My after school office hours are on Tuesday and Thursday from 3:30pm-4:00pm. During my coaching seasons I am available by appointment only. The best way to contact me is through my email, sturgis.daniel@tcamail.org