

# Biology (Science)

Required – Year – 10

Prerequisites: None

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## Course Purpose

Biology is the study of living things. Biology, as with all subjects at Luther High, will be taught in the light of God's Word. Being that God created man to have dominion over plants and animals, much emphasis will be placed on the study of the makeup and functioning of the **human** body.

## Course Goal

The goal of Biology is to have the students gain an appreciation of the complexity of life and be able to apply it now and in the future.

## Course Objectives

The **teacher** will:

- 1) Present God's creation from a Christian perspective.
- 2) Help the student to be successful by using a variety of teaching and learning methods.
- 3) Foster a love for God's living things and an enjoyment of their study.

The **student** will:

- 1) Appreciate more fully the infinite wisdom of God through His creation.
- 2) Grow in the knowledge of the structure and function of the human body.
- 3) Apply healthy living habits in their teenage years and carry them over to the future.
- 4) Develop a more "medically literate" vocabulary.
- 5) Demonstrate strong organizational skills and study habits.

## Course Outline

**August – December:** Chapters 1,7,8,9,10,11,12,13,14, and semester one test. (Intro to Biology, cell structure and function, energy, cell division, inheritance, human genetics, DNA/RNA, and the Human Genome)

**January – May:** Chapters: 35, 36, 37, 38, 39, (40,19), dissections, and semester two test. (This is an extensive study of all 11 systems of the human body).

## Instructional Strategies

Students can expect a variety of instructional methods throughout the year. These are some that will be used: taking notes from class lecture (many times with prepared slides through power point), question and answering, lab work, Kahoot review games, demonstration and observation, discussion, youtube videos, videos for you to watch at home, and reading and taking notes from the textbook.

## Grading

Your grade will be weighted the following way:

*Chapter Tests = 40%*

*Quizzes and Homework = 40%*

*Cooperation/Participation/Attendance = 5%*

*Semester Test = 15%*

\* These are the minimum percentages needed for each letter grade

97 = A

72 = D+

93 = A-

68 = D

65 = D-

90 = B+

Under 65 = F

87 = B

84 = B-

81 = C+

78 = C

75 = C-

## Student Materials

- Biology by Miller/Levine is the textbook (provided). They cost \$71.50 each! In order to prolong the life of the book the book **must** be covered. A 50-cent fine will be taken off of a student's book deposit for an uncovered book. That amount can be more for belligerent, repeating offenders! If your \$5.00 book deposit \$ gets used up before the end of the year, a letter from the office gets sent home to the parents to send in another \$5.00. **MAKE A STURDY COVER – and one that keeps the corners covered!**
- 3 ring binder (medium size - nice and sturdy with paper to take notes on)
- folder (preferably with 3 holes)
- pen (not red)
- pencils (we will use the scantron sheets for many tests and quizzes.)

## Classroom Procedures

**TESTS:** Usually every two weeks - based on notes taken in class which much of the time outlines the textbook. If you miss a test, you should hopefully take it the next day.

**QUIZZES:** Usually at least two times a week – both open note and closed note quizzes (they will be announced). Because we have so many quizzes, they will not always have to be made up. The grade just doesn't get factored into your total score. (*It doesn't hurt you, it doesn't help you.*) Adjustments may have to be made for the "multiple misser".

**DAILY WORK:** It is the student's responsibility to get assignments when class is missed. Assignments will almost always be told at least a week in advance. See me for special circumstances.

**COOPERATION/PARTICIPATION/ATTENDANCE:** Much learning goes on by just **being in class** and cooperating and participating appropriately in the discussion or lab. Future employers also like to hire people they can count on to "show up for work". These things count for 5% of your grade.

### **CLASSROOM COOPERATION**

*\*\*\* In order that I can do my best job teaching and that you can do your best job learning, there are some things that we need to work together on!*

**We need to work together that you will be STRONG:**

S - **sit up** ..... keep the head off the desk (also helps your cooperation and participation grades).

T – **track** ... follow those that speak ..... teacher to student, student to teacher, and student to student. (also helps your cooperation grade)

R – **respond** .... logically, timely, and appropriately. (also helps your participation and cooperation grades)

O – **observe** ... see everything that is happening. (no sleeping – also helps your cooperation and participation grades)

N – **notes** ... take them ... make best use of 43 minute class time (means less homework)

G - **Gospel** oriented ... we are all children of God learning about God's wonderful creation.