

# 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, demonstration and observation, discussion, dvd demonstrations, and reading and taking notes from the textbook.

## Grading

Your grade will be weighted the following way:

*Chapter Tests = 45%*

*Quizzes and Homework = 30%*

*Cooperation/Participation/Attendance = 10%*

*Semester Test = 15%*

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

97.5 = A+

67 = D+

93 = A

63 = D

90 = A-

60 = D-

Under 60 = F

87 = B+

83 = B

80 = B-

77 = C+

73 = C

70 = C-

## Student Materials

- Biology by Miller/Levine 2008 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 some 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. This counts for 10% 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:**

1. Be in your seat by the bell.
2. Be organized every day – have assignments and materials for class. (covered book, binder, folder, pen, pencil, etc..)
3. When seated, open books and binders to the part we are studying. Be ready when the instructor is ready.
4. Not talk when your instructor is talking, or when another classmate has the floor. It's very rude and annoying - and hurts your cooperation grade.
5. Be an active learner – answer questions, ask questions, take good notes. We are going to be in class every day for 43 minutes, so you might as well make the best use of that class time!
6. Keep your head off the desk and your eyes open. This helps your cooperation and participation grade.
7. Never argue or whine about a teacher decision. You may ask politely if something doesn't seem right or fair.
8. Treat each other and the instructor with respect and in a mature manner.
9. Use your God given ability to the fullest.
10. Remember that we are all children of God. Let's let our lights shine!