

NORTHSIDE CHRISTIAN SCHOOL  
**GENERAL BIOLOGY I (10<sup>th</sup> Grade) 2009 / 2010**

**GOALS:**

1. Learn to appreciate and marvel at God's order and design in His creation of LIFE as seen in life's complex organic molecules, cells, processes, and in it's diversity as understood by the concepts that interrelate all of these.
2. Understand Biblically the philosophy, terms, and sometimes *misconceptions* related to both *creationism* and *evolution*.
3. Investigate LIFE through guided and independent laboratory opportunities.
4. Increase the student's understanding of biological and scientific terms through the use of related prefixes and suffixes.

**TEXT:** Biology for Christian Schools, 3<sup>rd</sup> Edition, Bob Jones University Press, 2005

**CLASS NEEDS:**

1. Separate spiral notebook for notes
2. Folder with pockets for handouts
3. Color pencils (optional)
4. Bring your text book to every class

**ACTIVITIES:**

1. Test and quizzes
2. Readings (text and periodicals)
3. Internet studies
4. Dissection
5. Laboratory experiments
6. Research opportunities
7. Drawings
8. Conferences (field trip)
9. Class discussions

**REQUIREMENTS AND GRADING:**

- 1) Your grade for each nine weeks will be based upon a total point system from the activities above. Test grades will always be figured as a percent and will be worth 100 points. Because the activities and assignments offered during a grading period will vary, the breakdown and total points for a grading period will vary.
- 2) **If you are absent, it becomes your responsibility to:**
  - a. Get the missed notes from a fellow student/s as soon as you return – **you must ask. This is the number one problem of most students.** *After you copy the notes please don't hesitate to come to see the teacher for further explanation and understanding.*
  - b. Obtain any missed handouts, worksheets from the teacher – **you must ask**
  - c. Obtain an understanding for any assignments that were given while you were absent – **you must ask.**
  - d. **You must** make up and turn in any homework, quizzes, labs, worksheets, projects, test and quizzes

- 3) It is not my standard policy to have individual students retake test and quizzes because of a low test grade. There may be times when I will permit the entire class to retake a test if the entire class does poorly. This hardly every happens.
- 4) Students and parents can check your present grade using Headmaster online

**STANDARD MAKE-UP POLICY: Adopted by NCS MS and HS fall 2008**

1. The new grading program can provide a weekly report of missed assignments. This list will be posted in each class on **Mondays** showing students and assignments that must be made up. **More details to follow.**
2. **You must** turn in all homework, assignments, and lab reports and make up quizzes, test, and lab experiment in the event of absence.
3. If you have a planed absence, you are required to fill out a planed absence form at least one week prior to the absence dates. You may obtain these forms from the office.
3. Added note – **Just do your work, please** – Yes, I can give HW notices, call Dad or Mom, give detentions, and talk to you concerning your lack of Christian character that is displayed by not doing your work or making up your work when you are required to do so. I want you to be successful in science and in your Christian life.

**GENERAL BIOLOGY CONTENT**

- WHAT IS LIFE?
  - CHARACTERISICS OF LIFE
  - BIOLOGICAL BUILDING BLOCKS
- BIOLOGICAL EXPERIMENTAION
  - SCIENTIFIC METHOD
  - CONTROL / EXPERIEMTAL GROUPS
  - SPONTANEOUS GENERATION STUDY
- CHEMISTRY REVIEW
  - 9<sup>TH</sup> GRADE
  - DIFFUSION/OSMOSIS
- INTRODUCTION TO ORGANIC CHEMISTRY
  - CARBOHYDRATES
  - PROTIENS
  - FATS
  - NUCLEIC ACID DNA / RNA
- CYTOLOGY
  - ORGANELLES and STRUCTURE
  - BACTERIA
- PROTEIN SYNTHESIS
- CELLULAR RESPIRATION – AEROBIC AND ANAEROBIC
- PHOTOSYNTHESIS
- CELL DIVISION
  - MITIOSIS
  - MEIOSIS
  - SPERMATOGENESIS / OOGENSIS
- GENETICS

- EVOLUTION / CREATIONISM
- SPECIATION
- CLASSIFICATION / TAXONOMY SYSTEM
- ZOOLOGY INTRODUCTION
  - CLASSIFICATION
  - PROTOZOANS
  - EARTHWORMS
  - CRAYFISH
- BOTONY
  - CLASSIFICATION
  - MONOCOTS/DICOTS
  - LEAVES
  - ROOTS
  - STEMS
  - SEEDS / FERTILIZATION

*And God saw every thing that he had made, and behold, it was very good. And the evening and the morning were the sixth day; Thus the heavens and the earth were finished, and all the host of them.*

*Genesis 1:31-2:1*

Please don't hesitate to email me if you have any questions. For emailing, go to the website: <http://www.ncslions.org/faculty.asp> and click on my name.