Mr. Donald Smith C-107

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Biology

(SCI-3210)

**Textbook:** Holt, Rinehart, and Wilson, “Modern Biology” ISBN: 0-03-056541-3

**Materials:**

Composition book or spiral notebook, pencils/pens, notebook paper, folder, $10.00 donation

**Course Description:**

Biology involves an in-depth study of the cell, as well as animal structure and function and ecology**.**

**Course Standards/Objectives**

Please go to the following link: <http://www.tn.gov/education/article/science-standards>

**Grading:**

First Nine Weeks Second Nine Weeks

Daily work 40% Daily Work 30%

Test grades 40% Test Grades 30%

Mid-term 20% EOC 25%

Final 15%

**Student Expectations:**

1. Assignments:
   1. Each day when the bell rings, you are to be in your seat. You will have an assignment to begin working on or a quiz to review for almost daily.
   2. A notebook/folder should be kept with notes and assignments you are given in class. Notes will be sent out via Remind prior to each chapter. You will not be allowed to use your phone to access during class. You will need to have printed off to add additional notes to.
   3. Worksheets will often be used to reinforce and evaluate learning. You are in high school and should be responsible. One worksheet will be provided.
   4. Random quizzes will be given in class. Some will be notified, others not. If you are absent on quiz day, you will need to see me to schedule a make-up quiz.
   5. A test is given over each chapter. There will be a review/practice test prior to each test. If you are absent on test day, you must schedule a time to make the test up; you will not be allowed to do a make-up test during class time
   6. One daily grade will be dropped. This does not include test, daily grades only!
   7. Assignments should be turned in on the date given or the next day unless student is absent. If not, every day that it is late is 10 points off. Late work **MUST** be turned in **to me at my desk**. This is the only way late work will be accepted
   8. Properly label all work with your name **(first & last**), the date, your class period, as well as a description of the assignment.
2. Make-up Work
   1. **YOU** are responsible for finding out what you missed if you are absent.
   2. All worksheets missed will be at my desk in the folder for your class period with your name on it if you were absent. See me to pick up your work.
   3. Make up work will be given to all students when absences occur. Per the school board policy, if a student has an unexcused absence NO CREDIT will be given for the work.
   4. Make up tests or quizzes can be made up before or after school, or you should see me to make other arrangements.
3. Cheating:
   1. This will not be tolerated! ANYTIME you are caught cheating, or assisting someone who is cheating, you will receive a zero.
   2. You will be written up (per handbook consequences), and I will discuss the matter with your parents (email, note or phone call). Absolutely no exceptions
4. Rules:
   1. Be on time to my class or bring me a pass. If you are not inside my classroom when the tardy bell rings, you will be counted tardy. Please refer to your handbook for consequences. Once the bell rings, you are to be in your seat and ready to start learning!
   2. Come to my class prepared.
   3. Be prepared to participate in class.
   4. ABSOLUTELY NO FOUL LANGUAGE will be tolerated!
   5. NO FOOD OR DRINKS IN THE CLASSROOM.\*\*
   6. Last but certainly not least, please be respectful: to me and to each other.
5. Discipline:
   1. First Offense: Warning.
   2. Second Offense: Writing Assignment and Discipline form.
   3. Third Offense: Phone call to parent or guardian.
   4. Fourth Offense: Assistant Principal’s Office
   5. Fifth Offense: Parent/Teacher/Counselor Meeting
   6. Serious matters will be directed to Assistant Principal’s office.

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| **Topic Covered By Week** | | **Objectives** | | **TN** | **Activity/Lab** |  |
|  |  |  |  | **Standards** |  |  |
|  |  |  |  | **Covered** |  |  |
| What is Science?/ | | Basic characteristics of | | CLE | Tech Prep #1 Activity- | |
| What is Scientific Method | | life/how to correctly | | 3255.INQ. | Identifying dependent/ | |
|  |  | perform a scientific | | 6-Jan | independent variables | |
|  |  | experiement |  |  |  |  |
| Cell Structure/Function | | Distinguish cellular | | SPI | How to use a microscope/ | |
|  |  | organells in prokaryotic/ | | 3210 1.1, | observing cork cells as | |
|  |  | eukaryotic cells | | 1.2 | well as onion cells/**Cell** | |
|  |  |  |  |  | **Model Presentations** | |
| Cellular Transport | | Distinguish between | | SPI | Egg Lab/Carrot Lab | |
|  |  | Active/Passive transport/ | | 3210 |  |  |
|  |  | Osmosis vs Diffusion | | 1.7/1.8 |  |  |
| Photosynthesis/ | | How photosynthesis | | SPU | Video/Worksheet/ | |
| Respiration/ATP | | occurs/describe the | | 3210 | Foldable Activity | |
|  |  | process of aerobic/ | | 3.2/3.3 |  |  |
|  |  | anaerobic respiration | |  |  |  |
| Nucleic Acids |  | Distinguish between | | SPI | **DNA Model** |  |
|  |  | DNA/RNA structures and | | 3210 | **Presentations** |  |
|  |  | roles in cellular processes | | 4.1-4.3 |  |  |
| Cellular Reproduction | | Distinguish between | | SPI | Onion slides lab activity | |
|  |  | mitosis/meiosis and | | 3210 | /identify and draw | |
|  |  | sexual/asexual | | 4.6, 4.7 | "PMAT" |  |
|  |  | reproduction |  |  |  |  |
| Genetics/Heredity | | Basic fundamentals of | | SPI | 1) Punnett Squares | |
|  |  | Mendelian Inheritance/ | | 3210 | Board Activity |  |
|  |  | Basic Human inheritance | | 4.4- 4.8 | 2) Classroom Traits | |
|  |  | patterns |  |  | Survey |  |
|  |  |  |  |  | 3) Various Dihybrid Cross | |
|  |  |  |  |  | worksheet activities | |
|  |  |  |  |  | 4) Human Pedigree | |
|  |  |  |  |  | analysis |  |
| Objectives Ecology | | Species Interactions/ | | SPI | Video Clips "Planet Earth" | |
|  |  | Food Chains/Food Webs/ | | 3210 | /Writing assignments | |
|  |  | Biomes |  | 2.1- 2.7/ | from videos |  |
|  |  |  |  | 3.1, 3.4 |  |  |
| Evolution/Biodiversity | | Charles Darwin's Theory | | SPI | Video clips of the | |
|  |  | of Evolution/Species | | 3210 | Galapagos Islands/ | |
|  |  | Adaptations |  | 5.1- 5.5 | Various color Sheet | |
|  |  |  |  |  | Activities |  |
| Comparative Anatomy | | Compare/Contrast various | | SPI 3210 | Various Species | |
|  |  | dissecting specimens | | 5.1- 5.4 | Dissection Labs |  |
| End of Course Exam Review | | Review |  | SPI 1.1- 5.6 | Take Practice Examinations | |
|  |  |  |  |  | to prepare for state exam | |

Lessons and topics follow in table.

Please note:

1. Order of lessons may change due to unforeseen circumstances.
2. Cell Model due date: First 6 weeks of school/ DNA Model estimated due date: 2 weeks after Mid Term.