# **ELL Biology Syllabus**

**Instructor:** Mrs. Dawn Lewis

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**Extra Help Night:** Mondays or by appointment during lunch or after school

**Text:**  *Inspire Biology*

**Course Materials:** Inspire Biology online resources, pocket folder/binder, pens/pencils, notebook and a highlighter

**Course Description:** This is a survey course that continues where Life science left off and also covers the following topics:

# Introduction to Biology

1. Course Requirements
2. Identification and use of lab equipment
3. Safety review
4. Scientific method
5. Review of Metric system
6. Analysis and interpretation of data and graphs
7. Biochemistry
8. Atoms
9. Water
10. Macromolecules
11. Enzymes
12. Cell
13. Cell theory
14. Structure and functions of cell organelles
15. Movement of materials through the cell membrane
16. Prokaryotic and eukaryotic cells
17. Fermentation, cellular respiration and photosynthesis
18. Nucleic acids and protein synthesis
19. Cell division
20. Asexual and sexual reproduction
21. Mitosis and Meiosis
22. Genetics
23. History of genetics
24. Genes and chromosomes
25. Human heredity and disorders
26. Genetic engineering
27. Evolution
28. Origin of life
29. Natural selection
30. Survival of the fittest
31. Biodiversity
32. Classification and taxonomy
33. Prokaryotes and eukaryotes
34. Survey of the 6 kingdoms
35. Interactions between organisms and the environment
36. Biomes, food chains and food webs
37. Environmental issues

Assessment: Your nine weeks grade will be determined by the following formula:

 Tests and quizzes 40%

 Labs and Participation 25%

Classwork 25%

Homework 10%