# Evansville High School Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Advanced Biology Date: \_\_\_\_\_\_\_\_ Hour: \_\_\_\_\_\_\_\_

Ms. Stalder

## **UNIT FOUR CALENDAR**

**2013-2014**

Cell Cycle and Reproduction

*Chapter 9: Cell Cycle and Cellular Reproduction*

*Chapter 10: Meiosis and Sexual Reproduction*

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|  | **March 11**  Intro to the Cell Cycle  **Read 9.1, 9.2**  **Review 1-7, test 1,2, 6-10** | **12**  Mitosis  **Read 9.3-9.4**  **Review 9-12, test 12-20** | **13**  Meiosis  **Read 10.1-10.2**  **Review 1-4 test 1,2,5-8** | **14**  Genetic Variation as a result of Meiosis  **Read 10.3, 10.4**  **Review 5-7 test 10, 13,14,16** |
| **17**  Genetic Disorders and Review | **18**  **Unit 4 Exam** | **19**  Review for Finals  **LAB DUE TODAY** | **20**  **Finals** | **21**  **Finals** |

### \*Calendars dates may change. Additional assignments may be given. Updates will be given in class as necessary. It is the student’s responsibility to be sure his/her calendar is up to date.

### Goals & Objectives

This is designed to be a guide for studying. It may not be all-inclusive. Be sure to review all labs, activities, and notes prior to your test.

**Content:** After completing this unit you should be able to understand and explain the following topics and/or ideas:

* Explain how the cell cycle controls growth and cell division and is a tightly regulated process
* Explain the steps required in mitosis
* Describe what happens when cell cycle control is lost (cancer)
* Compare and contrast eukaryotic and prokaryotic cell division
* Describe the process of gamete production (meiosis) and how genetic variation occurs as a result
* Explain how genetic disorders can arise as a result of mistakes made during meiosis
* Compare and contrast mitosis and meiosis

**Vocabulary:** After completing this unit you should be able to define these terms and give an example of how they were used in class.

* Cell Cycle
* Chromosome
* Chromatid
* Growth Factors
* Apoptosis
* Somatic Cells
* Diploid Number
* Haploid Number
* Mitosis
* Cytokinesis
* Cancer
* Differentiation
* Proto-oncogenes
* Tumor suppressor genes
* Binary Fission
* Nucleoid
* Asexual Reproduction
* Gamete
* Sexual Reproduction
* Homologous Chromosomes
* Allele
* Zygote
* Meiosis I
* Meiosis II
* Genetic Recombination
* Crossing Over
* Independent Assortment
* Euploidy
* Aneuploidy
* Trisomy
* Karyotype
* Deletion
* Duplication
* Translocation

***Review your class work daily.***

***Review your notes and refine them.***

***Add information from your textbook readings.***

***Summarize material and record questions.***