KAP Biology 114: Genetics and Development: North Ridgeville

2006-2007 School Year

Biology 114 will focus on the study of development (using the human and chick as examples), mechanisms of inheritance, advanced topics in genetics, biotechnology and bioethics. Reading and interpreting scientific literature, correct writing style, and a bioethical presentation will be integrated into this course.

Textbook: <u>Human Genetics</u>, Ricki Lewis, 6th Edition

There will be more articles than those that are listed.

This is meant to be a <u>tentative</u> schedule for second semester. We will follow this <u>sequence</u> but may not always be on the projected date. The major assignments are in this syllabus. You will be given a few other reading assignments as needed.

- Please read the **pages assigned and introductions** to each chapter. If you have the computer capabilities, take advantage of the online activities.
- Tutorials for both courses are found on the Kenyon Website
- Website for your genetics book: http://highered.mcgraw-hill.com/sites/0072846054
 Username: apstudent Password: mcgraw

W Th	1/17 1/18	Review male hormone cycles; begin female anatomy Spermatogenesis quiz; Oogenesis & crossing over Bookwork
 M T	1/22 1/23	Ovarian cycle & hormones of the ovarian cycle Complete female; uterine, ovarian and hormone cycles Bookwork
W	1/24	Lactation Article: Breast Milk
Th F 	1/25 1/26	Pass out Genetics book & review of male and female Test chapter 19: male and female
M T	1/29 1/30	Go over test; Chapter 20 notes; fertilization and blastocyst formation Implantation and membrane formation
W	1/31	Gastrulation and Neurulation
Th	2/1	Prep for quiz 1; complete neurulation
F 	2/2	Quiz 1; Mesoderm notes and prep for embryo lab
Μ	2/5	Complete mesoderm notes
Т	2/6	Complete embryo notes; prep for quiz 2
W	2/7	Quiz 2: Prep for Embryo Lab
Th	2/8	Lab
F 	2/9	Lab
Μ	2/12	Media center – embryo research
Т	2/13	Media center
W	2/14	Media Center
Th	2/15	Embryo Test
F M	2/16 2/19	Chapter 1: Introduction to Genetics President's Day No School
T	2/19	Inborn errors of metabolism and genetic applications
Ŵ	2/20	Complete chapter 1; bookwork
Th	2/22	Genetic testing and gene therapy
F	2/23	Chapter 2: Chemical level of inheritance
M	2/26	Cell to cell interaction and faulty ion channels
Т	2/27	Cell cycle and apoptosis

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Farewell to our beloved seniors! Good luck to future seniors! ©