Unit 2 Genetic Processes Test: Tuesday, April 8th, 2014

Here are the topics:

* Basic structure of DNA, parts, terms associated with it: gene, locus, allele, chromosome, centromere, homologous chromosome, etc.
* Cell cycle: know all the parts, what is occurring during each part and why (parts of interphase, mitosis & cytokinesis)
* What is mitosis? Why does it occur? How does it work? Ensure you are able to use proper terminology!
* Karyotype: what does it show? Purpose?
* Sexual reproduction (4.2):
  + meiosis-parts/phases-proper vocabulary to describe the phases
  + compare it to mitosis
  + gametogenesis: oogenesis vs. spermatogenesis
  + variation (when & how): crossing over & independent assortment
  + errors in meiosis-errors in chromosome number (non-disjunction)
  + errors in chromosome structure
* 4.3-reproductive strategies (your note)
* Mendelian Genetics-monohybrid & dihybrid crosses & TEST Cross-ensure you are able to get full marks by completing ALL the steps!
* Pedigrees (5.3)
* Beyond Mendel-incomplete dominance, codominance, multiple alleles (6.1)
* Sex-linked inheritance (p253-258)
* Other terms-diploid/haploid, autosome/sex chromosome, somatic/sex cell, gamete, chromosome/chromatid/chromatin, stem cell, and any others!

Looking for extra practice?

* Learning checks are found throughout the chapters and they all have the answers at the back of the textbook.
* Retry some of the homework!
* Ch.4 (p198-199), self assessment Q’s #1-25
* Ch. 5 (p238-239) self assessment Q’s #1-25
* Ch. 6 (276-277) self assessment Q’s 1-7, 9, 11-13, 16, 17, 19
* Unit 2 (286-287) self assessment Q’s #1-19, 22, 23
* Any of Ch. 4,5,6 end of chapter reviews

\*\*\*The answer book is always available, just ask to borrow it during class!\*\*\*