

## **Study Guide for the Spring Semester Final Biology**

**Final:** The semester final will count for 20% of your semester test average. It will be 100-150 multiple choice questions.

**Note Card:** For the final, you will be allowed one 4x6 index card as a notes sheet. The dimensions of the card must not exceed 4x6 and the card **MUST** be turned in at the end of the final with your name on it. All material on the card **must be handwritten**. Failure to turn in your note card (if you used one during the final) will result in a **minimum loss of 10%** of your final exam score.

**Disclaimer:** The majority of the topics covered on the semester final have been listed, but this is not comprehensive. Anything we have covered this semester in lecture, reading, handouts, labs, etc. is fair game for the final. This list just indicates those topics I believe that the majority of students need to review. Anything not covered in class will not appear on the final. If you have any doubts, please ask; don't just assume you won't see it.

**Topics covered in class:** Chapters 10-16 (DNA and RNA; Genetics; Evolution);

**Review Questions:** The following questions need to be answered on a separate piece of paper and will be collected for credit.

### **DNA and RNA**

1. Define the following terms: Chromosome, Nucleotide, Base pairing, Gene, RNA (ribonucleic acid), Transcription, Translation, Codon, Anti-codon
2. What occurs in replication, transcription and translation? State the steps of each, where they occur and the enzymes involved.
3. Name the three parts of a DNA nucleotide and three parts of a RNA nucleotide.
4. What are the base-pairing rules for DNA? How are they different for RNA?
5. Name the three types of RNA and the function of each one.
6. What is the significance of Photo 51?
7. What is a codon? What does it "code" for?
8. What is the difference between a purine and a pyrimidine? Give an example of both.

### **Genetics**

9. Define the following words: homozygous, heterozygous, phenotype, genotype, gamete, nondisjunction, crossing over and karyotype.
10. What is the expected phenotypic ratio in a monohybrid cross between 2 heterozygous individuals? What is the expected phenotypic ratio in a dihybrid cross between 2 individuals that are heterozygous for both traits?
11. State Mendel's Laws of Genetics and give an example of each.
12. What is a sex-linked trait? Give an example.

# Spring Semester Study Guide Biology

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