



# MISSISSIPPI STATE UNIVERSITY™

## SUPPLEMENTAL INSTRUCTION

### Exam #3 Review Guide

#### Chapter 11: Nucleic Acid Structure and DNA Replication

- *Role of genetic material: information, replication, transmission, and variation*
- *DNA- Deoxyribonucleic Acid (stores genetic material)*
  - *Encoded in a sequence of nucleotides*
  - *Packaged in chromosome and stored in nucleus*
- *DNA structure:*
  - *Nucleotides → Single strand → Double helix → Chromosome → Genome*
  - *Humans have 23 pairs of chromosomes*
    - *22 homologous pairs of chromosomes (one chromosome in each pair is from the mother and the other is from the father)*
    - *1 pair of sex chromosomes - [Females = XX] and [Males = XY]*
  - *DNA Nucleotides (3 components)*
    1. *Phosphate group*
    2. *5-Carbon Sugar (Deoxyribose in DNA)*
      - *Base is attached to 1' C*
      - *-OH group on the 3' C*
      - *Phosphate on the 5' C*
    3. *Base ( G / C / A / T )*
  - *DNA Strand*
    - *Covalent bonds link "backbone" phosphate group and the -OH group*
    - *Bases project away from the backbone into the middle of double helix*
      - *Hydrogen bonds link the nitrogenous bases in the middle*
    - *The strand has **directionality** and is **antiparallel** (5' to 3' and 3' to 5')*
    - *Directionality depends on what is "free" on the end of the strand*
      - *The end of the strand with a phosphate group sticking off is 5'*
      - *The end of the strand with the -OH sticking off is the 3'*
- *Base Pairs*
  - *Adenine (A) pairs with Thymine (T)*
  - *Cytosine (C) pairs with Guanine (G)*
  - **Chargaff's Rule**- *complementary base pairs are present in equal amounts*
    - *the % of A = the % of T*
    - *the % of C = the % of G*
- *DNA Replication*
  - *DNA must be replicated whenever a cell divides to produce new cells*
  - *Parental strands separate and each original strand serves a template for the synthesis of a new DNA strand which makes this process **semi-conservative***
  - *Replication proceeds in **both directions** from an origin of replication*

# Ics 3study Guide

**S Ashworth**



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