Heredity / Genetics

SPI: 3210.4.1-9, 3210.T/E.2-4, 3210.Inq.1-8, 3210.Math.1,2&6

Topics: **Introduction to Genetics –** Meiosis and Genetic Variation (10.1) Classical Genetics (10.2), **Human Heredity** - Patterns of Inheritance(11.1-2), Human Chromosomes(11.3), **Molecular Genetics –** Genetic Material (12.1), DNA Replication(12.2), DNA, RNA and Protein Synthesis(12.3), Gene Regulation and Mutations(12.4), **Gene Technologies and Ethical Issues-** Selective Breeding(13.1)**,** Recombinant DNA and Biotechnology (13.2)**,** Human Genome and Ethics (13.3).

Objective: **Understand DNA structure and function. Understand how to use pedigree charts to interpret modes of inheritance. Understand meiosis and how genetic information is passed to future generations.**

EQ: How does biological information pass from one generation to another? What is the structure of DNA and how does it function in genetic inheritance? What are mutations and are all mutations undesirable or fatal? How and why do scientists manipulate DNA in living cells? What are ethical issues and how are they handled?

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EOC: Heredity (24%) # items 11-13

These SPI's are discussed and used throughout the entire semester

Check daily assignment page of www.mrskingsbioweb.com regularly