



Sturgeon Composite High School

Biology 30

COURSE OUTLINE



Prerequisite: Biology 20- minimum recommended mark **60%**

Textbook: Nelson Textbook and Wiley Textbook

Course materials: Calculator Dao Tang
Three ring binder

Course Objectives:

- To develop an understanding of:
- The human body central nervous system
- The human body endocrine system
- The human body reproductive system
- Genetic concepts as they refer to cell division, DNA, protein synthesis and populations.

Course Content: **Biology 30 consists of 4 Units:**

Unit I: Systems regulating change in the human organism

- Electrochemical control (nervous system)
- Chemical control system (endocrine system)

Unit II: Reproduction and fetal development

- To ensure the survival of the species
- Genetic and environmental influences
- Chemical control regulation of reproduction

Unit III: Cells, chromosomes, and DNA

- Cell division (mitosis and meiosis)
- Rules of inheritance (classical genetics)
- Protein synthesis (molecular genetics)

Unit IV: Change in populations and communities

- Population genetics
- Calculation of variation in gene pools
- Population and individual interactions

Evaluation: **Term work: = 50%** Unit exams = **60%** Quizzes (one quiz will be done per chapter) =**11%** Labs (a lab write up will be handed in after each lab) = **11%** Journal (a current article will be researched and critiqued each week, this will be marked twice in the semester) = **5%** Presentation (an oral presentation will be done on a genetic disease, supported by a poster)= **3%** Assignments (numerous worksheets, x-words and case studies are done in this class) = **10%**

Final Exam: = 50% (there will be a part A and part B of the diploma exam at the end of the semester)

Behavioral expectations: Students are expected to attend class, be on time, and if absent, to confirm that absence with the office that day.