

CENTRAL HIGH SCHOOL
INTRODUCTION TO BIOLOGY
MRS. NIKKI SHIFFLET
COURSE SYLLABUS

Course Description:

This course is designed to give the student an overview of the different aspects of the biological sciences: botany, zoology, anatomy, ecology, chemistry, and life science.

Course Objectives:

Upon the successful completion of this course, students will be able to:

- Discuss, demonstrate, and/or illustrate the principles (and all related to) of cell biology, genetics, evolution, and ecology, botany, zoology, and anatomy/physiology.

Required Class Materials:

- Notebook
- Folder
- Calculator
- 12" Ruler

Text:

Johnson & Raven. Holt Biology. 2004

Course Outline:

- Biology & You
- Chemistry of Life
- Cell Structure
- Cells & Their Environment
- Photosynthesis & Cellular Respiration
- Chromosomes & Cell Reproduction
- Meiosis & Sexual Reproduction
- Mendel & Heredity
- DNA: The Genetic Material
- How Proteins Are Made
- Gene Technology
- History of Life on Earth
- The Theory of Evolution
- Classifications of Organisms
- Populations
- Ecosystems
- Biological Communities
- The Environment
- Introductions to the kingdom of Life
- Viruses & Bacteria
- Protists
- Fungi
- Introduction to Plants
- Plant Reproduction
- Plant Structure & Function
- Plant Growth & Development
- Introduction to Animals
- Invertebrates
- Mollusks & Annelids

- Arthropods
- Echinoderms & Invertebrates Chordates
- Introduction to Vertebrates
- Fishes & Amphibians
- Reptiles & Birds
- Mammals
- Animal Behavior
- Introduction to Body Structure
- Circulatory & Respiratory Systems
- Digestive & Excretory Systems
- The Body's Defenses
- Nervous System
- Hormones & the Endocrine System
- Reproduction & Development

Grading:

The grading scale for this course is listed on page 20 of the student handbook.

Class Policies & Procedures:

- **Homework:** Each topic explored will have worksheets and/or assignments that are to be completed by the student.
- **Supplements:** Each project explored may also be supplemented by activities, labs, slides, pictures, videos, and dissections. The student will be responsible for any and all information presented in these supplements.
- **Quizzes/Tests:** The student will be responsible for any and all information read in the text, presented by the instructor, and explored in labs, and viewed in graphics or videos.
- **Semester Assessment:** A final assessment for the course will be administered. It will count for 15% of the course grade.
- **Absences:** Any student who has 5 or more absences (medical, pre-approved absences for school related activities, DOS, and ISS--not included) in this class over the course of the semester will receive 0's for all homework and projects due beyond the 5th absence as outlined in the student handbook.
- **Make-Up Work:** Any student that is absent (for any reason) is responsible for getting and/or turning in any notes, work, and project missed. For each class session missed, the student will have 2 class periods in which to turn in the work. Beyond these days, the work will be counted as late. (Special circumstances may apply: extended illness, major project that cannot be completed at home, etc. The instructor reserves the right to extend more time in the above situations.)
- **Late Work:** Late work will be accepted for 75% credit if turned in to instructor by 8:15 a.m. the next day. Work received after this time will be late and a 0 will be given.
- **Extra Credit:** There is **NO** extra credit given in this course unless it is a direct assignment given by the instructor to all students. Students are required to complete all work assigned by the due dates.

Instructor Contact:

Mrs. Nikki Shifflet can be reached by the following:

- Telephone:(815) 694-2321
 - Please leave a message with office personnel (name, student's name, reason for calling, best time to call, and phone number)
- Email: nshifflet@cusd4.org