

Biology Honors Syllabus

Course Description:

The science of biology must begin with cell theory, including the structure, function, and chemistry of the cell. Cells form the primary level of organization of all living things. The chemistry and function of each cell shapes the lifestyle of the organism, from feeding to reproductive patterns. This first course in biology focuses on the life of the cell, dealing with issues of structure, transport, genetics, protein synthesis, energy production, and usage. The tools of science are explained and then focused on the living systems in the cell. In the case of genetics, the molecular behavior of DNA is elaborated to show how it determines the visible traits of the organism and population. Thus, you are led on a tour of living systems from the tiniest to the broadest levels of organization. During this tour, you will employ text, computer simulations, videotaped labs, and hands-on investigation to verify each concept and make them relevant to what you see each day. The aim of this course is to guide you, the student, to see your world in biological terms, and then to expand your vision to contemplate current topics in biological research and application.

The study of the human body involves more than just its anatomy, but also entails an understanding of the roles each part plays, how each contributes to system, and holistic wellness. The basic plan of the course is to examine each of the organ systems, including the skeletal, muscular, integumentary (skin), circulatory, respiratory, immune, digestive, excretory, nervous, sensory, endocrine, and reproductive systems. The regulation and coordination of these systems is what constitutes physiology, which is the major part of the laboratory investigations associated with the course. After completing the course, students will have a foundation for more specialized studies in the health sciences.

Additional Materials Required:

- None

Student-Teacher Conferences:

Office Hours. Students can schedule up to three (3) Student-Teacher Conference over the duration of the course. These meetings are optional, and attendance will not affect your grade.

To schedule an office hour with your teacher to please visit the Student Resources page on waonline.org.

Washington Academy Grading Scale:

A = 100 - 93

B = 92 - 85

C = 84 - 76

D = 75 - 70

F = 69 or less

Coursework Overview

○ **ASSIGNMENTS**



Activity



Assignments are completed by the student through fillable PDFs which they can fill-out, save to computer, then upload to in the Learning Management System. Assignments are typically found throughout the course(s) and can be opened by clicking the “**Activity**” button when prompted to do so. Assignments will be graded by your teacher.

○ **ASSESSMENTS**



Assessments, or Quizzes, are predominately computer graded and will test your knowledge of the content of each Section upon completion.

○ **EXAMS**



At the end of each Unit, Semester and the Course, you will need to complete an Exam.

○ **PARTICIPATION**



Participation grade is determined upon the completion of the “End of Course Survey.” Participation in Discussion boards or Office hours does NOT affect your grade.