

Department: Science
Course Name: Biology

Course Description:

This class is a general science course exploring the varied and intricate world of living things. Topics will include the following: basic biological theories, cell structure and function, genetics, ecology, evolution, microbes, protists, fungi, and human anatomy and physiology. Regular laboratory work and research projects are an integral part of this course.

Content:

Scientific method
Lab safety
Organic molecules
Cell structure
Cell transport
Photosynthesis
Cellular respiration
Mitosis
Meiosis
Evolution
Genetics
DNA transcription and translation
Human anatomy
Ecology

Skills:

Improve study and organizational skills, including note-taking strategies, notebook organization, time management, and test preparation
Utilize a learning management system for accessing content, assignments, and assignment submissions
Learn how to use the scientific method to gather and analyze data and to discover new concepts through lab and/or hands-on activities
Write scientific lab reports and use spreadsheets to present data
Apply reason, logic, and basic problem-solving skills
Develop dissection techniques

Text and Materials:

Biggs, Alton, et al., Biology, 2012, eBook, McGraw-Hill Education.

Methods of Instruction:

Lecture
Interactive presentations
Interactive notebooks
Class reviews
Class discussions
Laboratories
Student presentations

Methods of Evaluation:

Tests

Quizzes (including online assessment)

Projects

Lab reports

Homework

Science Fair Project for Final Exam

