



Biology A/B

Grand Haven High School



Course Number: D34A / D34B

Grade Level: 10th Grade

Credits : 1 credit

Prerequisite Courses :

Course Description

In Biology, students will study life science concepts in a lab-based course. Learning will take place through hands-on activities, field work, discussions, audio-visual presentations, projects and other classroom means. This course is designed to meet the State of Michigan curriculum content expectations for Biology as both a GHHS and State graduation requirement.

Course Objectives

Students will develop an understanding of living systems and life processes. Units of study include Introduction to Biology, Ecology, Chemistry/Biochemistry, Cell Structure, Cell Energetics, Cell Growth and Division, DNA & Protein Synthesis, Genetics, Evolution, Classification of Organisms, Homeostasis & Health, and Human Body Systems (includes dissection of 2-3 selected animals).

Student Expectations

Students are expected to maintain a Biology notebook/folder, which may be periodically evaluated.

Assignments submitted late are subject to a 50% score reduction.

Make-up opportunities (tests, quizzes, labs) must be scheduled with the teacher.

Students are to do nothing that hinders learning or teaching in the classroom.

Communication

Regular progress can be monitored using parent internet viewer (PIV). Teacher will be available through email contact and phone.

Grading Policy

60% of grade = Assessments (tests, quizzes, etc.)

40% of grade = Daily Work (including activities & projects)

Building Behavioral Expectations

TEAM GH ... One Team, One Family, One Grand Haven. Be Kind. Always.

It is our expectation that ALL GHHS students, staff and parents will ... always give their best **EFFORT** in everything that they do, work hard to be **INCLUSIVE** of each other, show **RESPONSIBILITY** in class, the hallways, cafeteria and at events, and **WORK TOGETHER** at all times!

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Scope and Sequence

1st Semester

Introduction to Biology; Scientific Method/Inquiry
Matter & Energy in Ecosystems
Population Ecology & Environmental Impacts
Chemistry & Biochemistry
Cell Structure & Function
Cell Energetics (ATP, Photosynthesis, Respiration)
Cell Division (Mitosis)

2nd Semester

DNA, RNA & Protein Synthesis
Meiosis & Mutations
Genetics & Biotechnology
Evolution
Classification of Organisms
Homeostasis & Health
Human Body Systems

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