



Welcome to Honors Biology!  
**Honors Biology Information and Syllabus**



**Instructors:**

Ms. Tasnuva Tomashevich

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**Room**

217

**Introduction**

The biology curriculum is designed to continue student investigations and deepen student understanding of the biological sciences. This course is an introduction to the study of living organisms and their interactions with their environment. It includes information about problem solving, making observations, and comparisons. This course further introduces the central concept of the cell, the molecular basis of heredity, biological evolution, the interdependence of organisms, matter, energy and organization in living systems, and the adaptive responses of organisms. Students will explore this subject through many different means, including, but not limited to, Google Classroom, Illuminate, classroom reading, writing, discussion, and laboratory activities. A major goal of this course is to prepare students for the proper study habits required to succeed in the biology program.

**REQUIRED Supplies Needed Daily for Biology:**

- |                     |                  |
|---------------------|------------------|
| 1. 1” 3-ring Binder | 3. Pencil or Pen |
| 2. Paper            |                  |

Optional Supply Items: scissors, color pencils/markers, eraser, sharpener, ruler,

**Grading Scale:**

40%	Practice work (classwork, homework, quizzes, labs, etc...)
40%	Assessments
20%	GA Milestones

**Course Grades:**

Grades will be determined by combining test scores, quizzes, daily work, homework, activities, and participation. Any opportunities to earn individual extra credit will be at the discretion of the teacher.

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Disclaimer: Syllabus is tentative at the discretion of the teacher.

**15-minutes Promise:**

Most days, students will receive content related homework, based on either review or new topics. Students are expected to reserve at least 15 minutes or more to complete their homework. In addition, it is vital that students also study their notes to master the topics for exams.

**Extra Help:**

If you need any extra help with any topic or will like to tutor a peer who might be struggling with certain concepts, please communicate with Ms. Jhileek BEFORE a unit test. Virtual tutoring will be conducted on **most Fridays during the class period**. Any cancellation of tutoring sessions will be announced in class and on Google Classroom prior to the session.

**Tutoring Format:**

Students will engage in virtual, interactive tutoring with the teacher during their allocated time. Students will gain access to the tutoring materials at least 24 hours in advance through Google Classroom. Students will have 5 minutes from the end of the tutoring session to submit their “interactive activities” on GC to receive credit for that tutoring session or even to earn the opportunity to retake a unit test. Students will not be allowed to retake any unit tests if they fail to attend the corresponding tutoring session(s).

**Science Fair:**

Honors Biology students are required to complete a science fair project. Students will need to join the “AAS Science Fair” class on GC for more pertinent information and due dates.

**Classroom policy and grading policy are attached separately. Policy needs to be signed and submitted to teacher.**

**Unit 1: Organization**

Scientific Processes  
The Nature of Biology  
Chemistry of Life  
Organic Macromolecules  
Viruses and bacteria

**Unit 2: Cells**

Cell Structure & Function,  
Cell Transport and Cell Membrane  
Homeostasis Photosynthesis & Cellular  
Respiration

**Unit 3: Growth and Heredity**

Asexual vs. Sexual Reproduction  
Cell Growth  
Mendelian and population Genetics  
DNA and RNA  
Chromosomes & Mutations

Genetic Engineering/Bioethics

**Unit 4: Evolution**

Kingdom Classification  
Evolutionary History/ History of Life  
Natural Selection  
Plant Adaptations & Animal Adaptations  
Succession  
Population evolution

**Unit 5: Ecology**

Energy Flow  
Cycles of Matter  
Food Chains/Food Webs  
Ecosystem Structure  
Population Ecology  
Succession

## Tentative Summative Assessment Schedule

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Student Name: \_\_\_\_\_

\_\_\_\_\_  
Parent Signature

\_\_\_\_\_  
Date