

**Biology 1 Syllabus**  
 Cara Tochiki (Tsutsuse)  
 cara\_tsutsuse@notes.k12.hi.us  
[ctsutsuse@mules.k12.hi.us](mailto:ctsutsuse@mules.k12.hi.us) (Google Docs)  
[leilehuabio.weebly.com](http://leilehuabio.weebly.com)

**Course Description:** Biology 1 is a laboratory course to develop understanding of fundamental life processes, relationships between structure and function, relationships between organisms and their biological and physical environments, environmental adaptations, classification, reproduction, genetics, and evolution. Emphasis is on the use of scientific investigations to develop inquiry process skills and strategies and to clarify the basic concepts of life and the impact of human technology on the quality of life.

**Prerequisites:** None

**Credit information:** Year

**Content Standards:**

**Standard 1: The Scientific Process: SCIENTIFIC INVESTIGATION:** Discover, invent, and investigate using the skills necessary to engage in the scientific process

**Standard 2: The Scientific Process: NATURE OF SCIENCE:** Understand that science, technology, and society are interrelated

**Standard 3: Life and Environmental Sciences: ORGANISMS AND THE ENVIRONMENT:** Understand the unity, diversity, and interrelationships of organisms, including their relationship to cycles of matter and energy in the environment

**Standard 4: Life and Environmental Sciences: STRUCTURE AND FUNCTION IN ORGANISMS:** Understand the structures and functions of living organisms and how organisms can be compared scientifically

**Standard 5: Life and Environmental Sciences: DIVERSITY, GENETICS, AND EVOLUTION:** Understand genetics and biological evolution and their impact on the unity and diversity of organisms

**Course goals:**

- 1) To help develop students into responsible citizens capable of making educated decisions based on their comprehension on topics related to science
- 2) To prepare students for future science classes and possible careers in science related fields
- 3) To further develop students analytical and problem solving skills

**Required materials:** Pencil or pen, paper, spiral bound notebook

**Textbook:** Biology

**Topics / Units :**

<p><b>Quarter 1:</b>            Safety in Science            Scientific Method            Biochemistry  <b>Assessments:</b>            Reaction Rate of Catalase Lab</p> <p><b>Quarter 2:</b>            Cell Structure and Function            Cellular Transport            Photosynthesis and Cellular Respiration  <b>Assessments :</b>            Diffusion Through a Membrane Lab</p>	<p><b>Quarter 3:</b>            Genetics            Evolution and Natural Selection            Classification            Ecology  <b>Assessments :</b>            Woolly Worm Lab</p> <p><b>Quarter 4:</b>            Ecology            Prepare for End of Course Exam  <b>Assessments :</b>            Engineering Design Process - Aquatic Environment</p>
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**Note:** A variety of factors are considered when determining a student's grade, not only the assessments noted above.

### Classroom Policies

- 1) All the rules, regulations, and guidelines stated in the LHS Agenda will be followed!
- 2) Participation is required in all activities.
- 3) Students will come to class prepared to learn. This includes giving full attention to the teacher at all times (no cellphones out), coming to class with school supplies, a positive attitude, and class assignments.
- 4) Laboratory safety rules must be followed. See the laboratory rules for details.
- 5) Everyone will show respect for themselves, each other, and the environment.

**Let's all work together to keep the classroom a safe, clean, enjoyable place of learning.**

(Note: additional classroom polices may be put in place or existing polices changed as needed.)

Consequences for breaking the rules include any of the following: a verbal warning and teacher counseling, a call to parent or guardian, detention, and a referral. Please note that severe insurrections will automatically result in a referral.

### Attendance and Missed Work

The attendance and tardy policy in the Leilehua High School Agenda will be followed. Please note that a few rare assignments may not be able to be made up and will be replaced by an alternative assignment. Parents and guardians are strongly encouraged to contact the appropriate school officials or myself if they foresee a valid absence. **It is the responsibility of the student or their parents to inquire about missed work due to an absence.**

### Grading

Grades are determined using the weighted scale shown below

Formative Assessments: 40%	Practice assignments leading to the summative assessments
Summative Assessments: 60%	Major assessment Items such as labs, projects, quizzes, tests, etc.

Quarter Grade =  $\frac{\text{Formative assessment points earned}}{\text{Formative assessment points total}} \times 0.40 + \frac{\text{Summative assessment points earned}}{\text{Summative assessment points total}} \times 0.60$

Grade scale	90% and above	= A
	89% - 80%	= B
	79% - 70%	= C
	69% - 60%	= D
	59% and below	= F

### Assignments

Students are required to record all assignments and their due dates in their student agenda. All assignments are generally due at the **beginning** of class. Class work is not accepted late. Homework and major assessments are accepted late with a heavy penalty. A due date extension may be given if the need is demonstrated. All assignments should be labeled with student's name and period.

If you need help with the material covered in class, come in for help. It is better to sacrifice some of your before school, recess, lunch, and after school time to improve your studies than to get the undesired results of "being lost" in class or on an assignment.

### Supplies

Every student will need the following supplies: folder paper, pen, pencil, and a spiral bound notebook. A roll of paper towels can be donated for potential extra credit or some other reward.

### Help

If you need help with anything, I am usually always in my classroom. If you have any special needs, please talk to me so that accommodations can be made. **Everyone** is here to learn.

## Contact Information Sheet

Student name: \_\_\_\_\_

Home address: \_\_\_\_\_

Contact number: \_\_\_\_\_ This number is for (circle one): Home Cell

Email address: \_\_\_\_\_

### Primary Contact

Parent/Guardian name: \_\_\_\_\_

Contact number 1: \_\_\_\_\_ This number is for (circle one): Home Cell Work

Best time to call this number: \_\_\_\_\_

Contact number 2: \_\_\_\_\_ This number is for (circle one): Home Cell Work

Best time to call this number: \_\_\_\_\_

Email address: \_\_\_\_\_

### Secondary Contact

Parent/Guardian name: \_\_\_\_\_

Contact number 1: \_\_\_\_\_ This number is for (circle one): Home Cell Work

Best time to call this number: \_\_\_\_\_

Contact number 2: \_\_\_\_\_ This number is for (circle one): Home Cell Work

Best time to call this number: \_\_\_\_\_

Email address: \_\_\_\_\_

**Students:** I have read and understood the syllabus, classroom rules, and lab safety rules. I will honor the syllabus and rules at all times.

Student signature \_\_\_\_\_ Date \_\_\_\_\_

**Parents and Guardians:** I discussed the syllabus, classroom rules, and lab safety rules with my child. I will honor and support the guidelines and rules stated in the syllabus.

Parent/Guardian signature \_\_\_\_\_ Date \_\_\_\_\_

