

# Biotechnology Academy – Biology 2003-2004

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408.347.4227 sci. office  
Prep: 2,3,4. A day

## BIOLOGY OBJECTIVES/CURRICULUM

STANDARDS	STANDARDS
<ul style="list-style-type: none"><li>• The fundamental processes of plants and animals depend on a variety of chemical reactions that occur in specialized areas of the organism's cells.</li><li>• Mutation and sexual reproduction lead to genetic variation in a population.</li><li>• A multicellular organism develops from a single zygote, and its phenotype depends on its genotype, which is established at fertilization.</li><li>• Genes are sets of instructions encoded in the DNA sequence of each organism that specify the sequence of amino acids in proteins characteristic of the organism.</li></ul>	<ul style="list-style-type: none"><li>• The genetic composition of cells can be altered by incorporation of exogenous DNA into the cells.</li><li>• Stability in an ecosystem is a balance between competing effects.</li><li>• The frequency of an allele in a gene pool of a population depends on many factors and may be stable or unstable over time.</li><li>• Evolution is the result of genetic changes that occur in constantly changing environments.</li></ul>

CLASSROOM RIGHTS	CONSEQUENCES IF RIGHTS ARE BROKEN
<p>You have the right to respect yourself in your culture, language, dress, and property.</p> <p>You have the right to be respected by every single person in the room by your culture, language, dress, and property.</p> <p>You have the right to an education and to be supported in your education.</p> <p>You have the right to be the expert in your own experiences.</p> <p>You have the right to know the rules of the culture of power.</p>	<p>Warning</p> <p>Time out</p> <p>Detention</p> <p>Call home to parent/guardian</p> <p>Referral to office</p> <p>Bye-Bye</p>

MATERIALS	BINDER ORGANIZATION
<p>Binder with dividers, lab book, paper (it can be recycled), colored pencils, scrapes book, writing utensil, highlighter.</p>	<p>Four Dividers: Homework Notes Handouts Test &amp; Quizzes</p>

<b>ATTENDANCE EXPECTATIONS</b>	<b>TARDINESS</b>
Daily attendance is necessary for success in this class. Much of the work will be done in the form of labs, and class work, so you will be behind if you miss excessive days. You are required to make up any work that you missed as a result of your absence.	You will have six "free" passes, which can be used to excuse yourself for up to 10 minutes. "Free passes" may be used for a tardy or late work. Late entries may need to stay after to clean or may miss "tardy quizzes."

<b>PLAGIARISM</b>
Students will be expected to use the honor system in all work. Any work that is plagiarized will be given zero credit. If a student plagiarizes a <u>second time</u> a phone call home will be made, zero credit for the assignment and a conference with counselor/disciplinarian will be scheduled. <u>Work is given to prepare students for success in the class and by plagiarizing this sets the student up for failure.</u>

<b>BEHAVIOR OBJECTIVES</b>
<p>Develop a STRONG work ethic.          Become responsible, RESPECTFUL, and accountable young adults.          Enhance communication and TEAMWORK skills.          Develop a continued motivation and interest to learn.          Enhance appreciation of engaging in science investigation.          Identify science issues that are meaningful to you.          Confidently engage in dialogue and ask questions.</p>

<b>GRADING</b>	<b>DISTRIBUTION OF WORK</b>
<p>100 - 90% = A          89 - 80% = B          79 - 68% = C          &lt; 68% = Not Passing, Let's talk</p>	<p>Homework 20%      Quizzes 15%      Tests 20%          Projects 10%      Field Trips 10%          Activities/Seminars 10%      Labs 10%          Extra Credit opportunities 5%</p>

<b>OFFICE HOURS</b>	
<p>I will be available. My job is to make sure that you learn. Please call me or come see me at any time. B day tutorial is always good! We will work something out.</p>	<p>Ms. Sutherland          408.347.4227 (sci. office)          sutherlandm@esuhsd.org          Prep: 2,3,4. A day</p>