



***High School Biology with Labs  
2019-2020 Syllabus***

**Teacher:** Peter Edwards

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**Description:**

This is a lab-based Biology class, meeting CA high school requirements and building students' content knowledge of Biology as well as skills in conducting scientific experiments and writing up lab reports. This course utilizes Glencoe's online ***Biology*** etext and other online resources. Students will: prepare at home by reading, completing assigned additional review and research, answering select end-chapter questions and vocabulary, conducting in-class labs, writing lab reports, and taking semester final exams. A final project of creating a unique creature that fits a special niche on our planet.

\*Syllabus subject to change

**Text & Materials Required**

- Glencoe Biology 2017 Edition
- Science notebook: Grid-lined Composition book
- Lab coat
- Safety goggles

**Semester 1**

<b>Class Date</b>	<b>Chapters to be covered</b> Complete assigned reading, research on topic, & additional requirements as assigned, before class meeting date.
<b>Sept 9</b>	Intro to Class & Chapter 1, 2, 3, 4, & 5: Ecology
<b>Sept 16</b>	Chapter 6 & 7: Chemistry in Biology & Cellular Structure
<b>Sept 23</b>	Chapter 8 & 9: Cellular Energy & Reproduction
<b>Oct 7</b>	<b>Lab - Microscopes &amp; Unicellular Organism Lab</b>
<b>Oct 14</b>	Chapter 10, 11, 12, & 13: Genetics
<b>Oct 21</b>	<b>Genetics Lab</b>
<b>Oct 28</b>	Chapter 14, 15, & 16: History of Life & Evolution
<b>Nov 4</b>	Chapter 17: Organizing Life's Diversity, Taxonomy, <b>Cladogram Lab</b>
<b>Nov 11</b>	<i>No class – holiday</i>

<b>Nov 18</b>	Chapter 18: Bacteria and Viruses
<b>Dec 2</b>	Chapter 19: Protists

*Winter Break: Dec 9th - Jan 3rd*

<b>Jan 6</b>	Chapter 20: Fungi & <b>Midterm (Take Home)</b>
<b>Jan 13</b>	Chapter 21, 22, & 23: Plants
<b>Jan 20</b>	<i>No class – holiday</i>

## Semester 2

<b>Class Date</b>	<b>Chapters to be covered</b> Complete assigned reading & additional requirements as assigned, before class date.
<b>Feb 3</b>	Chapter 21, 22, & 23: Plants
<b>Feb 10</b>	Chapter 24& 25: Intro to Animals, Worms and Mollusks
<b>Feb 17</b>	<i>No class – holiday</i>
<b>Feb 24</b>	Chapter 24& 25: Intro to Animals, Worms and Mollusks
<b>March 2</b>	<b>Roundworm Dissection &amp; Planarian (Take Home Lab)</b>
<b>March 9</b>	Chapter 27: Echinoderms & Invertebrate Chordates
<b>March 16</b>	Chapter 28: Fishes & Amphibians
<b>March 23</b>	<b>Frog Dissection</b>
<b>March 30</b>	Chapter 29 : Reptiles & Birds
<b>April 6th &amp; 13th</b>	<i>No class – Spring Break</i>
<b>April 20</b>	Chapter 30 & 31: Mammals & Animal Behavior
<b>April 27</b>	Final Project Presentations
<b>May</b>	<b>Final Exam (Take Home)</b>