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## *Alignment with Teaching Standards*

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The following tables demonstrate how this course meets national and state teaching standards. The standards are in the left-hand column, while the information in the right-hand column indicates where in this course the elements of the individual standards are addressed.

### AP Standards

The following are College Board Standards for AP Biology, effective Fall 2012, available at their web site <http://apcentral.collegeboard.com/apc/public/courses/descriptions/index.html> (accessed July 7 - 8, 2013).

<b><u>Standard</u></b>	<b><u>Correlation</u></b>
<b>Enduring understanding 1.A:</b> Change in the genetic makeup of a population over time is evolution	Class Notes: 9, 10, and 11 Labs: 10, 11, 12
<b>Enduring understanding 1.B:</b> Organisms are linked by lines of descent from common ancestry	Class Notes: 3, 8, 10, 11 Labs: 12, 13, 14, 15
<b>Enduring understanding 1.C:</b> Life continues to evolve within a changing environment	Class notes: 9, 10 and 16 Labs: 10, 14
<b>Enduring understanding 1.D:</b> The origin of living systems is explained by natural processes	Class Notes: 3, 9 and 10 Lab 10
<b>Enduring understanding 2.A:</b> Growth, reproduction and maintenance of the organization of living things require free energy and matter	Class Notes: 4 and 16 Labs: 4, 5, 6 and 16
<b>Enduring understanding 2.B:</b> Growth, reproduction and dynamic homeostasis require that cells create and maintain internal environments that are different from their external environments	Class Notes: 3 Lab 3:5

<u>Standard</u>	<u>Correlation</u>
<b>Enduring understanding 2.C:</b> Organisms use feedback mechanisms to regulate growth and reproduction and to maintain dynamic homeostasis	Class Notes: 3, 4, 15 & 16. Labs: 3 and 15.
<b>Enduring understanding 2.D:</b> Growth and dynamic homeostasis of a biological system are influenced by changes in the system's environment	Class Notes: 4, 10, 12, and 13 Labs: 3, 11, 12 and 16
<b>Enduring understanding 2.E:</b> Many processes involved in growth, reproduction and dynamic homeostasis include temporal regulation and coordination.	Class Notes: 4, 12, 14, and 15 Labs: 12, 14 and 15
<b>Enduring understanding 3.A:</b> Heritable information provides for continuity of life	Class Notes: 2, 7, 8, and 9 Lab: 10
<b>Enduring understanding 3.B:</b> Expression of genetic information involves cellular and molecular mechanisms	Class Notes: 9
<b>Enduring understanding 3.C:</b> The processing of genetic information is imperfect and is a source of genetic variation	Class Notes: 7, 8, 9 and 14 Labs: 8 and 14
<b>Enduring understanding 3.D:</b> Cells communicate by generating, transmitting and receiving chemical signals	Class Notes: 3 and 7
<b>Enduring understanding 3.E:</b> Transmission of information results in changes within and between biological systems	Class Notes: 13 and 15 Lab: 15
<b>Enduring understanding 4.A:</b> Interactions within biological systems lead to complex properties	Class Notes: 2, 3 and 16 Labs: 2, 12 and 16

<u>Standard</u>	<u>Correlation</u>
<p><b>Enduring understanding 4.B:</b> Competition and cooperation are important aspects of biological systems</p>	<p>Class Notes: 2, 3, 4, 15 and 16 Labs: 2,12, and 15</p>
<p><b>Enduring understanding 4.C:</b> Naturally occurring diversity among and between components within biological systems affects interactions with the environment</p>	<p>Class Notes: 2, 3, 8, 9 and 16 Labs: 10, 11, 12 and 14</p>