

AP Biology Summer Study – Rationale and Syllabus  
2009-2010

**Rationale:**

1. The AP Board strongly encourages a 7 period week for AP Biology for a full nine month school year. Ironically, while the AP Biology course is designed to mimic a college introductory Biology course, no college Biology course covers the breadth of an AP Biology curriculum. With a test to determine course content, AP instructors are forced to cover an impossible curriculum. In an effort to keep the course schedule at 5 per week, we are moving to summer study to cover topics that cannot be covered during the year.
2. Next year the AP Biology course is scheduled with a 5 period/week schedule. There are 12 AP lab periods that will require the use of Activity Periods. These will be announced ahead of time, but they are MANDATORY.
3. Seniors at SLUH have already studied Ecology and Taxonomy. The freshman Biology course spends the better part of a semester on Ecology, and part of the 4th quarter on Taxonomy. The AP Biology summer study centers on these two topics.
4. Students should read and fill out the Biozone 2009 Senior Biology I units covering Ecology and Classification. We will be using the Ecosystems, Energy Flow and Nutrient Cycles, The Populations, Classification, Practical Ecology, and Human Impact and Conservation units.
5. Textbook notes are provided online and may be useful to those students that have not yet purchased a textbook. They were typed from the class textbook: Biology, AP Edition, Campbell and Reece, 7<sup>th</sup> Ed. Topics for summer study are taken from the Biology textbook, the appendix, chapters 26-34, and 50-55.

**Summer Topics:**

Ecology and Classification - Senior Biology I

- Ecosystems pgs 281-297
- Energy Flow and Nutrient Cycles pgs 299-311
- Populations pgs 312-331
- Classification pgs 332-349
- Practical Ecology pgs 350-365
- Human Impact and Conservation pgs 367-391
- Campbell Biology Textbook Notes: Chapters 50-55, 26-34

**Evaluation:**

Test, first FULL day of class (regular schedule). The test will be entirely multiple choice, and will cover the Biozone Senior Biology I book pages listed above. The makeup test (if the original is missed) is totally essay. A practice test is available online – find it on Bioweb.

**AP Test:**

Students will be strongly encouraged to take the AP Biology test, in May 2010. All students will take an exam – either the AP Bio National Exam or Mr. Kuensting's second semester exam. Note that some students will not receive college credit despite their score of a "5" on the AP test, because they are Science Majors and the college of their course will make them take the Biology again. Check with the college you plan to attend and get their policy!

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**Bioweb:** <http://www2.sluh.org/bioweb/>

1. Bioweb has an AP Biology section that includes the summer study files. Use the Summer Study Radio Button and Popup Menu to select what you need.
2. The notes can be found online within Bioweb. The online notes contain links to mp3 files that will “podcast” explanations of the notes that you must read. A dialup connection will be slow but the audio should still play. You can download the audio files to your computer and play them from your machine, or you can transfer them to an “ipod” and play them from there.
3. The SLUH domain hosts the BioWeb site that contains huge amounts of information. Links to ecology pages and other topics can be found at: <http://www2.sluh.org/bioweb/links/bioweblinks.htm>. Taxonomy links can be found at: <http://www2.sluh.org/bioweb/links/apbiolinks.htm>. Important links outside of the SLUH domain are available from an index page within the SLUH domain, at: <http://www2.sluh.org/bioweb/links/outsidelinks.htm>

**Books to Purchase:**

1. Biology, AP Edition. Neil A. Campbell and Jane B. Reece (7th edition). ISBN: 0-8053-6777-2 - Purchase Used to Save Money!!
2. Senior Biology 1, 2009, Richard Allan, Biozone International Ltd, ISBN: 978-1-877462-21-4.
3. Senior Biology 2, 2009,, Richard Alan, Biozone International Ltd, ISBN: 978-1-877462-23-8 .
4. AP Biology Lab Manual. Item #: 991461, ISBN: 9990898618, The College Board, revised 2001

**Book Purchase Information**

1. The textbook has been outdated by a newer edition but we are still using the older edition to save money. Brand new 7th edition books still sell for \$120, while used ones sell for as little as \$15. The 8th edition of the book is \$135 new and \$109 used on Amazon (DO NOT BUY THE 8th EDITION!!)
2. To Purchase a Biozone Book you can make a direct web purchase from the manufacturer. Go to <http://www.biozone.co.nz/order.html> and click on “Credit Card Purchase” in the “Secure Credit Card Purchases” Field.
3. The Biozone books are no longer listed directly on the SLUH MBS website because of copyright issues. The latest edition of the books are published in late August. Students buying books early in the summer purchased the older editions while those purchasing late bought the newer editions. To avoid the confusion, we are using the 2009 Senior Biology Books this year. We are making a bulk purchase with a SLUH purchase order to save money. Do not buy 2008 or 2007 books!
4. The AP Biology Lab manual can be purchased on Amazon for \$20...