



## ***AP Biology One-Day Workshop***

**Monday November 14th, 2016**

**Bismarck, North Dakota**

Facilitated by: Dr. John Goudie

Kalamazoo, Michigan

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Greetings, I am looking forward to meeting you on November 14th and hope you will find the presentation informative and helpful as you teach AP Biology. Thanks. John Goudie

### ***Objectives***

*Participants in this workshop will have the opportunity to:*

- share hints for improving student achievement.
- participate in content updates.
- discuss the new AP Biology Curriculum Framework.
- explore the changes in the AP Biology exam especially Math and Biology.
- learn how to incorporate inquiry into the AP Biology curriculum.
- Discuss laboratory investigations and share ideas for implementing these activities in the classroom (time permitting).
- receive suggestions on how to develop and/or revise an AP Biology course.
- network and develop a support system with other workshop participants.

### ***College Board Equity & Access Statement***

The College Board strongly encourages educators to make equitable access a guiding principle for their AP programs by giving all willing and academically prepared students the opportunity to participate in AP. We encourage educators to:

- Eliminate barriers that restrict access to AP for students from ethnic, racial and socioeconomic groups that have been traditionally underserved.
- Make every effort to ensure their AP classes reflect the diversity of their student population.
- Provide all students with access to academically challenging course work **before** they enroll in AP classes.

Only through a commitment to equitable preparation and access can true equity and excellence be achieved.

**Please bring a calculator with square root and exponent functions.**

## Agenda

***This schedule is a guide for what we hope to accomplish during our workshop. Some activities may have to be adjusted according to the pace or needs of the class, or due to unforeseen circumstances. Participants will be given as much advance notice as possible when changes occur. Your indulgence and flexibility are appreciated.***

### Detailed Agenda

<b>8:00 am</b>	<b>Welcome and Introductions</b> <b>Goals &amp; Course Revisions</b> <b>Understanding the New and modified Curriculum Framework:</b> Mapping the Big Ideas Enduring Understandings Essential Knowledge Learning Objectives Exclusion Statements Emphasis on Science Practices <b>Activity: Detecting Science Practices</b> Equity & Access
AP Biology Math	Problem Solving <u>Using Quantitative Skills</u> Graphing Data Analysis Hypothesis Testing Mathematical Modeling <b>Practice test &amp; answers</b>
The AP Audit	Syllabus Development College Board Resources <b>Examining the College Board Site</b> <a href="http://apcentral.collegeboard.com/home">http://apcentral.collegeboard.com/home</a>
AP Biology Labs	AP Labs-Review- The Good Bad, and Ugly
AP Exam	The Test (Go to AP Central) Free Response Questions Analysis Notes from an AP Biology Exam Reader How to help students take the exam Strategies for Success PPT
Lunch	Teacher-Directed vs. Student-Directed Instruction Introduction to Inquiry Essential features of inquiry Modifying traditional labs- Case Study Activity -PPT
	Selected Laboratory Exercises and a lot of free material... Investigation 11: Artificial Selection <b>Activity</b> Investigation 2: Mathematical Modeling: Hardy-Weinberg <b>Activity: Cladograms:</b> Regular and Molecular Investigation 3: Comparing DNA Sequences to Understanding Evolutionary Relationships with BLAST DNA Sequencer : A gift
<b>3:00 pm – 4:00 pm</b>	Wrap Up Unfinished Business from Earlier in the Day Review & Summary Sharing Evaluations