Bio

08-18-11

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syllabus:

will be on exam

(First exam (take-home): received: on blackboard week in advance. Due in: Sept 1)

Student projects: 3 out of class assignments required (one at lake)

Final is CUMMALATIVE

if you know you are going to miss exam/lab, arrange to take early (far better than late)

ALL assignments: NAME AND SECTION NUMBER ON FIRST PAGE

-always keep work, grade print-outs

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Study guides are NOT provided

each unit = get reading assignment

-he picks out and lists the things he considers most important in the reading assignment

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**Chapter 1: Scientific thinking**

**LEARNING GOALS:**

(changed in the next class. see 08/30)

describe what science is

describe the scientific method

describe the key aspects of well-designed experiments

describe how the scientific method can be used to help make wise decisions

describe the major themes in biology

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**Science** is a collection of facts and understanding the world

-not just facts to be remembered

-also the **search for answers** (observation, description, experimentation, explanation of natural phenomena)

-**power**: has the ability to predict future behaviors/results

-explaining how something works or why something happens requires methodical, objective and rational observation and analysis (not clouded with emotions/preconceptions)

-**results**: must be driven by well-collected data

-data tells us results, the results do NOT tell us the data

-m. import. q.: How do you know that's true?!

Scientists: curious, ask questions, seek answers

reading assignment will be posted on blackboard today:

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