

SYLLABUS for BIO 150: THE LIVING WORLD, FALL 2004

Instructors: Prof. Paul Bingham, Prof. Matthew Schmidt

Lectures: Tuesdays and Thursdays, 12:50-2:10, Rm. 100, Javits Lecture Center

Textbook: Biology, Campbell (2002, Benjamin Cummings)

Office Hours (MS): Tuesday 5:30-6:30 pm, Thursday 2:30-3:30 pm

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Course Website: BLACKBOARD

<u>LECTURE</u>	<u>DATE</u>	<u>INSTRUCTOR</u>	<u>TITLE (Chapter in book)</u>
1	Tuesday 8/31	MS	Course introduction: Unifying Themes in Biology (Ch. 1)
2	Thursday 9/2	MS	The Tree of Life (Ch. 1)
3	Tuesday 9/7	MS	Where did life come from? Chemistry and the Early Earth (Ch. 2-3, 26)
4	Thursday 9/9	MS	Life's molecules (Ch. 4-5, 26)
5	Tuesday 9/14	MS	DNA and Proteins – “Partners in Life”; The RNA Revolution (Ch. 5, 26)
	Thursday 9/16		NO CLASS – Rosh Hashanah
6	Tuesday 9/21	MS	Putting It In A Sac: Lipids and the first membranes (Ch. 5, 8, 26)
7	Thursday 9/23	MS	Prokaryotic Cells – “Before the nucleus” (Ch. 27)
8	Tuesday 9/28	MS	The advent of the nucleus: early Eukaryotes, modern “Protists” (Ch. 28)
9	Thursday 9/30	MS	1 monk + 1 garden + lots of peas + a very good brain = the first understanding of the principles of inheritance (Ch. 14)
	Tuesday 10/5		<u>MID-TERM EXAM I (LECTURES 1-9)</u>
10	Thursday 10/7	PB	Another Look at Mendel's Laws: Where do they come from and why do they work? (Part 1)
11	Tuesday 10/12	PB	Another Look at Mendel's Laws: Where do they come from and why do they work? (Part 2)
12	Thursday 10/14	PB	Biology isn't really about organisms - it's about information: how is an immune system or a brain like a species? (Pt. 1)
13	Tuesday 10/19	PB	Biology isn't really about organisms - it's about information: how is an immune system or a brain like a species? (Pt. 2)
14	Thursday 10/21	PB	Cancer I: What is this disease?

15	Tuesday 10/26	PB	Cancer II: Why haven't we done better?
16	Thursday 10/28	PB	Cancer III: Prospects for the future.
17	Tuesday 11/2	PB	Combinatoriality and Complexity: Why is a turtle more complicated than a rock?
18	Thursday 11/4	PB	How do plants and animals interact with one another? What are we seeing when we look at a "natural habitat"?
	Tuesday 11/9		<u>MID-TERM EXAM 2 (LECTURES 10-18)</u>
19	Thursday 11/11	MS	Diversity and Philosophy of Classification (Ch.1)
20	Tuesday 11/16	MS	Darwin and Natural Selection (Ch. 22)
21	Thursday 11/18	MS	The nature of science: hypotheses, theories, and laws (Ch. 1)
22	Tuesday 11/23	MS	Sexual Selection: Why Sex? (Ch. 23)
	Thursday 11/25		<i>NO CLASS – Thanksgiving</i>
23	Tuesday 11/30	MS	Population Genetics and the Hardy-Weinberg Equilibrium (Ch. 23)
24	Thursday 12/2	MS	Microevolution and mechanisms of change (Ch. 23)
25	Tuesday 12/7	MS	Speciation and Extinction (Ch. 24)
26	Thursday 12/9	MS	Evidence for Evolution: Facts and Fallacies (Ch. 22)
	<u>Thursay 12/16</u> <u>11am-1:30 pm</u>		<u>FINAL EXAM (LECTURES 19-26)</u> <i>(NON-CUMULATIVE)</i>

Access to our class's on-line Blackboard site

You can access class information on-line at: <http://blackboard.sunysb.edu>
If you used Blackboard during the 2003-2004 Academic Year and/or Summer 2004, your login information (Username and Password) has not changed. If you have never used Stony Brook's Blackboard system, your initial password is your SOLAR ID# and your username is the same as your Stony Brook (sparky) username, which is generally your first initial and the first 7 letters of your last name.

For help or more information see:
<http://www.sinc.sunysb.edu/helpdesk/docs/blackboard/bbstudent.php> For problems logging in, go to the helpdesk in the Main Library SINC Site or the Union SINC Site, you can also call: 631-632-9602 or e-mail: helpme@ic.sunysb.edu