

BIOL 101: Principles of Biology
Syllabus
Spring Quarter 2008
Calls # 01025 - 01032, 5 credit hours

Instructor: Dr. Stefan Gleissberg
Teaching Assistant: Conny Bartholmes

Course Description and Requirements:

This course covers the principles of cell biology, physiology, ecology, genetics, and evolution and is designed for non-science majors. Credit for this course is not allowed if the student has had or is taking BIOS 170, PBIO 110, or PBIO 114.

Class Times

Lectures: MTuWTh, 4:10PM to 5:00PM, Margaret M. Walter Lecture Hall 145
Labs: Porter Hall 300

Assessment and Grading:

First Exam - 100 points	90-92%, 93% and above	A-, A
Second Exam - 100 points	80-82%, 83-87%, 88-89%	B-, B, B+
Final Exam - 100 points	70-72%, 73-77%, 78-79%	C-, C, C+
Laboratory - 100 points	60-62%, 63-67%, 68-69%	D-, D, D+
Quizzes - 100 points	below 59 %	F
Total: 500 points		

Exams will be based upon material covered in class lectures as well as in the assigned readings. Example questions will be provided. Weekly quizzes will also count toward the final course grade. The final exam will emphasize the last third of the course, but will also include previous material.

Students must pass the laboratory (minimum 60%) in order to pass the class even if the student has a passing grade in the lecture. A separate laboratory syllabus will be provided to you at your first laboratory meeting.

Make up examinations will be considered only by written request to the instructor. Your request should include your name, course number, day and time of the missed class, the reason for your absence, and why you think that you should be allowed to take a make up exam or quiz.

Course Materials:

- 1) Textbook: Bioinquiry, 3rd edition 2006, by Nancy L. Pruitt and Larry S. Underwood, published by Wiley & Sons (required)
- 2) Laboratory Manual: Biology 101 Laboratory Guide and Workbook, 4th ed. (2005) Ivan. K. Smith and Z. Rinkes, published by Wiley & Sons (required)
- 3) Blackboard <http://blackboard.ohio.edu/>

Office Hours:

By appointment, Porter Hall Room 500
email: gleissbe@ohio.edu (preferred), or office phone: 593-2549

Attendance Policy:

Regular attendance is expected, necessary, and strongly recommended as examinations are based on the material covered in the lectures in addition to the course textbook.

Academic Conduct and Class Etiquette:

The penalty for course-related academic dishonesty (i.e., cheating on exams, plagiarism) will be failure of the entire course. Disturbance of the lecture, i.e. by talking or allowing electronic devices to sound, will not be tolerated and will result in appropriate sanctions. The lectures, classroom activities, and all materials associated with this class are copyrighted, recording of classroom activities by any electronic means requires permission of the instructor.

Course Lecture Schedule (subject to changes)

<i>Week</i>	<i>Date</i>	<i>Day</i>	<i>Topic</i>
1	Mar 31	Mon	1. Syllabus and beginning discussions
	Apr 1	Tues	2. Scientific Method
	Apr 2	Wed	3. Characteristics of Life, Biological Disciplines
	Apr 3	Thurs	4. Evolution–natural selection, speciation
2	Apr 7	Mon	5. Phylogeny and Earth History
	Apr 8	Tues	6. Classification of Organisms, Tree of Life
	Apr 9	Wed	7. Pro-, Eukaryotic Cells, Endosymbiotic Theory, Viruses
	Apr 10	Thurs	8. Cells—Plasma Membrane, Diffusion and Osmosis
3	Apr 14	Mon	9. Cell Structure, Plant vs animal cells
	Apr 15	Tues	10. Chromosomes and the mitotic cell cycle
	Apr 16	Wed	Review session
	Apr 17	Thurs	Exam I
4	Apr 21	Mon	11. Meiosis and Sexuality
	Apr 22	Tues	12. Life cycles
	Apr 23	Wed	13. DNA Structure and Function, Replication
	Apr 24	Thurs	14. Transcription and Protein Synthesis
5	Apr 28	Mon	15. Mendelian Genetics I
	Apr 29	Tues	16. Mendelian Genetics II
	Apr 30	Wed	17. Population genetics
	May 1	Thurs	18. Ontogenetic development I
6	May 5	Mon	19. Ontogenetic development II
	May 6	Tues	20. Biochemistry, Carbohydrates and Lipids I
	May 7	Wed	Review session
	May 8	Thurs	Exam II
7	May 12	Mon	21. Proteins
	May 13	Tues	22. Glycolysis
	May 14	Wed	23. Krebs Cycle and Electron Transport
	May 15	Thurs	24. Nutrition
8	May 19	Mon	25. Heterotrophic lineages: Protists to mollusks
	May 20	Tues	26. Heterotrophic lineages: Arthropods to Chordates
	May 21	Wed	27. Heterotrophic lineages: Mammals, human evolution
	May 22	Thurs	28. Heterotrophic lineages: Fungi and others
9	May 26	Mon	Memorial Day - NO CLASS
	May 27	Tues	29. Photosynthesis
	May 28	Wed	30. Autotrophic lineages: Algae
	May 29	Thurs	31. Autotrophic lineages: Land plants
10	Jun 2	Mon	32. Nutritional plants
	Jun 3	Tues	33. Terrestrial ecosystems
	Jun 4	Wed	34. Aquatic ecosystems
	Jun 5	Thurs	Review session
11	Jun 12	Thurs	Final Exam – 2:30 p.m.