

BIOL 101: Principles of Biology
Syllabus
Spring Quarter 2007
Call #'s 01068 - 01075, 5 credit hours

Instructor: Dr. Stefan Gleissberg
Teaching Assistant: TBA

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: TWThF, 9:10 - 10 AM Bentley Hall 140
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+
Total: 400 points	below 59 %	F

Exams will be based upon material covered in class lectures as well as in the assigned readings. Example questions will be provided in the lecture before exams. Also, if the instructor feels that the class is not reading the assigned material, then pop quizzes will be given in class and 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 pop quiz.

Course Materials:

Textbook: Bioinquiry, 3rd edition 2006, by Nancy L. Pruitt and Larry S. Underwood, published by Wiley & Sons (required)

Laboratory Manual: Biology 101 Laboratory Guide and Workbook, 4th ed. (2005) Ivan. K. Smith and Z. Rinkes, published by Wiley & Sons (required)

Blackboard <http://blackboard.ohiou.edu/>

Office Hours:

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

Attendance Policy:

Although attendance records will not be maintained for the lecture portion of this course, regular attendance is strongly recommended as examinations will be 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, etc.) 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.

Course Lecture Schedule (subject to changes)

<i>Week</i>	<i>Date</i>	<i>Day</i>	<i>Topic</i>
1	Mar 27	Tues	Syllabus & Beginning Discussions
	Mar 28	Wed	Scientific Method
	Mar 29	Thurs	Characteristics of life, biological disciplines
	Mar 30	Fri	Evolution—natural selection, speciation
2	Apr 3	Tues	Diversity of living organisms, earth history
	Apr 4	Wed	Classification of Organisms
	Apr 5	Thurs	Evolution of major lineages I
	Apr 6	Fri	Evolution of major lineages II
3	Apr 10	Tues	Pro-, Eukaryotic Cells, Endosymbiotic Theory, Viruses
	Apr 11	Wed	Cells—Plasma Membrane, Diffusion & Osmosis
	Apr 12	Thurs	Cell Structure, Cytoskeleton, Organelles. Plant and animal cells
	Apr 13	Fri	Exam I
4	Apr 17	Tues	Cell Cycle & Chromosomes
	Apr 18	Wed	Mitosis in Plant & Animal Cells
	Apr 19	Thurs	Meiosis
	Apr 20	Fri	Development and life cycles
5	Apr 24	Tues	DNA Structure and Function, Replication
	Apr 25	Wed	Transcription and Protein Synthesis
	Apr 26	Thurs	Mutations and phenotypes
	Apr 27	Fri	Mendelian Genetics I
6	May 1	Tues	Mendelian Genetics II
	May 2	Wed	Characterizing Genetic Variation in Populations
	May 3	Thurs	Review
	May 4	Fri	Exam II
7	May 8	Tues	Bioenergetics, thermodynamics
	May 9	Wed	Carbohydrates & Lipids
	May 10	Thurs	Proteins
	May 11	Fri	Enzymes
8	May 15	Tues	Respiration
	May 16	Wed	Glycolysis
	May 17	Thurs	Krebs cycle
	May 18	Fri	Electron Transport
9	May 22	Tues	Review
	May 23	Wed	Photosynthesis – light-dependent reactions
	May 24	Thurs	Photosynthesis – light-independent reactions
	May 25	Fri	Plants and their environment
10	May 29	Tues	Soil biology (DeForest guest appearance)
	May 30	Wed	Animals and their environment
	May 31	Thurs	Global issues in ecology
	Jun 1	Fri	Review
11	Jun 6	Wed	Final Exam