

BIOLOGY 101
INTRODUCTORY BIOLOGY
Autumn Quarter 2009

Professors:

Dr. Beth Gray	Ms. Susan Heaphy	Dr. Curtis Young
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419-995-8868	419-995-8853	Labs: 1:30 – 3:30 TR
gray.210@osu.edu	heaphy.6@osu.edu	9:10-11:10 WF
Lab: 9:10-11:10 TR	Lab: 11:20 – 1:20 TR	

Biology 101 is the first of a two-quarter sequence of Biology courses for *non-majors*. It is not for those pursuing an undergraduate major in the biological sciences. Biology 101 lectures are Monday, Wednesday and Friday, and lab/recitations are Tuesday and Thursday. We do not take attendance, but expect and encourage it. All assignments and exams will be due or given on assigned dates unless circumstances warrant a schedule change. Accordingly, late assignments will be penalized, and make-up exams will be given only for properly excused absences. We reserve the right to change the make-up exam format (e.g. to essay) or assign a term paper as a substitute for a make-up exam.

Course Grading:

Item	Points	Grade/Percentage
Exam 1	80	A 93-100
Exam 2	80	A- 90-92
Final Exam	80	B+ 87-89
<i>New York Times</i> project	40	B 83-86
Lab/Recitation	<u>200</u>	B- 80-82
	480	C+ 77-79
		C 73-76
		C- 70-72
		D+ 67-69
		D 60-66
		E 59 & below

Recommended text from which lectures will be derived:

Biology: Concepts and Connections, 6th ed, N.A. Campbell, J.B. Reece, M.R. Taylor, E.J. Simon, and J.L. Dickey. Pearson Benjamin Cummings, Inc.,

- Earlier editions of this text, or any introductory Biology textbook, may be used

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Carmen:

Carmen can be accessed from the OSU Lima homepage or at <https://carmen.osu.edu>. Your username is your OSU account (last name.#), and the password is the same as for your OSU e-mail account. Lecture notes, links, practice exams, and exam grades will be posted at Carmen.

Cell phones:

Silence it and put it away. You don't need to consult it during lecture. **During exams cell phones are to be silenced and buried inside of a backpack or purse.** You cannot answer any call for any reason during any exam.

Laptop computers:

While some students use their laptops to follow along with lecture material, I have concluded that in large lectures the majority of laptop users are not doing so. Instead, laptops often become a distraction to the users as well as to students sitting next to or behind them. Therefore, laptop use is banned during lecture.

Exam etiquette: You may bring a drink to exams, if you can drink quietly. Please don't bring food, as usually it's in a noisy package (such as a chips bag) which is distracting.

Academic Misconduct:

Academic misconduct will not be tolerated. Any violations of the University Code of Student Conduct will be reported to the OSU Committee on Academic Misconduct (COAM) in Columbus. Please familiarize yourself with the University Code of Student Conduct and COAM at:

<http://oaa.osu.edu/coam/home.html>

<http://oaa.osu.edu/coam/faq.html#whatisacademicmisconduct>

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LECT	DATE	DAY	READING	TOPIC
1	Sept. 23	W	1	Biology: Exploring Life
2	Sept. 25	F	2	The Chemical Basis of Life
3	Sept. 28	M	3	The Molecules of Cells
4	Sept. 30	W	3	The Molecules of Cells
5	Oct. 2	F	4	A Tour of the Cell
6	Oct. 5	M	5	The Working Cell
7	Oct. 7	W	6	How Cells Harvest Chemical Energy
8	Oct. 9	F	7	Photosynthesis: Using Light to Make Food
	Oct. 12	M		EXAM 1 (Lectures 1-8)
9	Oct. 14	W	8	The Cellular Basis of Reproduction and Inheritance
10	Oct. 16	F	8	The Cellular Basis of Reproduction and Inheritance
11	Oct. 19	M	9	Patterns of Inheritance
12	Oct. 21	W	9	Patterns of Inheritance
13	Oct. 23	F	9	Patterns of Inheritance
14	Oct. 26	M	10	Molecular Biology of the Gene
15	Oct. 28	W	10	Molecular Biology of the Gene
16	Oct. 30	F	13	How Populations Evolve
17	Nov. 2	M	13	How Populations Evolve
18	Nov. 4	W	14	The Origin of Species
19	Nov. 6	F	15	Tracing Evolutionary History
	Nov. 9	M		EXAM 2 (Lectures 9-19)
	Nov. 11	W		Veteran's Day - No classes ☹
20	Nov. 13	F	16	The Origin and Evolution of Microbial Life: Prokaryotes and Protists
21	Nov. 16	M	17	Plants, Fungi, and the Colonization of Land
22	Nov. 18	W	18	The Evolution of Invertebrate Diversity
23	Nov. 20	F	18	The Evolution of Invertebrate Diversity
24	Nov. 23	M	19	The Evolution of Vertebrate Diversity
25	Nov. 25	W	34	The Biosphere: An Introduction to Earth's Diverse Environments
	Nov. 27	F		Columbus Day observed - No classes
26	Nov. 30	M	36	Population Ecology
27	Dec. 2	W	37	Communities and Ecosystems
28	Dec. 4	F	37	Communities and Ecosystems
	Dec. 7	M		10:00 FINAL EXAM (Lectures 20-28)

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Laboratory Schedule

DATE	DAY	TOPIC	READINGS
Sept. 24 / 25	R/F	What is Science? Hypothesis Testing	1
Sept. 29 / 30	T/W	Chemical Composition of Food	3
Oct. 1 / 2	R/F	Cell Biology	4
Oct. 6 / 7	T/W	Enzyme Study	5.3
Oct. 8 / 9	R/F	Review for Exam 1	
Oct.13 / 14	T/W	Cellular Reproduction	8
Oct. 15 / 16	R/F	Basic Genetic Principles	9.1
Oct. 20 / 21	T/W	FlyLab	9.2
Oct. 22 / 23	R/F	Variation and Selection in Nature	13.2
Oct. 27 / 28	T/W	EvolutionLab	13.3
Oct. 29 / 30	R/F	Homology, Analogy & Speciation	14
Nov. 3 / 4	T/W	Systematics	15.4
Nov. 5 / 6	R/F	Review, Exam 2	
Nov. 10	T	Prokaryotes and Protista	16
Nov. 12 / 13	R/F	Plant Kingdom, Fungi	17.1
Nov. 17 / 18	T/W	Plant Reproduction	17.2
Nov. 19 / 20	R/F	Animal Kingdoms	18
Nov. 24 / 25	T/W	Owl Pellet Study	
Nov. 26 / 27	R/F	Thanksgiving Day /Columbus Day- No Classes	
Dec. 1 / 2	T/W	Populations and Communities	36
Dec. 3 / 4	R/F	Ecosystems, Biomes	37.2

Laboratory topics may be changed at lab instructor's discretion.