

INSTRUCTOR: Dr. Peggy Brickman - Room 405  
Phone - 542-1690  
Office hours, MWF 12:15-1:00 p.m.  
E-mail - [brickman@uga.edu](mailto:brickman@uga.edu)

## DATA

SPECIALIST: Mrs. Yulonda Davis - Room 403  
Biology Undergraduate Instruction Office  
Phone - 542-1684  
E-mail - [ydavis1@uga.edu](mailto:ydavis1@uga.edu)  
See Ms. Davis for general information about Biology 1103  
-enrollment, grade problems, final exam conflicts

COURSE OBJECTIVES: In this course, rather than just memorizing and accepting facts, you will learn to organize concepts and use them to develop a way of thinking about how we know what we know about the natural world. Using real-life scenarios, you will acquire problem-solving skills and appreciate the importance of Biology in your own life.

EXPECTED LEARNING OUTCOMES: A demonstrated understanding of how and why energy is transferred from the environment into and through living organisms, how genetic information is used in organisms, and the factors that affect evolution of organisms over time.

REQUIRED TEXT and Clicker: Biology: A Guide to the Natural World, 3<sup>rd</sup> Edition; by David Krogh. You will also need to purchase an Interwrite Personal Response system – RF.

LECTURES Monday, Wednesday, and Friday Room 404E from 11:15-12:05, or 1:25-2:15 p.m. There is no mandatory attendance policy, but test questions are taken mostly from lecture material. **DAILY GROUP ACTIVITIES ARE PLANNED SO YOUR GROUP SCORE MAY SUFFER IF YOU MISS CLASS!** Show respect for your fellow students -arrive on time, avoid leaving early, quiet your cell phone and your non-biology discussions.

DISABILITIES: Accommodations can be made for students with disabilities. Please meet with me during office hours to discuss your learning needs.

Webct: Syllabus, PowerPoints, review notes, bulletin board, and private mail will be available on WebCT: <http://webct.uga.edu>. Your user ID will be your UGmail account login name and password. (If you have no account see: <http://my.uga.edu/> )

MINITESTS: Rather than having just two large exams during the semester, I feel students learn better if they have more frequent tests on less material. It puts less pressure on each test, and keeps you from falling behind in your studying. So, I will be giving 5 small tests throughout the semester with 15 multiple-choice questions per test. Each question will be worth 2 points, for a total of 30 points per test. There will also be a cumulative midterm and final exam. In most cases test questions will come from the lecture on the topic, but in a few cases questions will come directly from the reading and may not have been covered in class. In testing, like life, anybody can have a bad day. In order to minimize the effect this may have on your grade, I am allowing each student to drop their lowest minitest score from their grade. **There are NO MAKEUPS. If you are sick and miss a test, this will serve as your lowest test grade for dropping.** You will, however, need to explain your absence to your team members, who will be assigning you a group contribution score. Test scores will be reported on Web-CT as soon as they are processed. Check them as soon as possible; you have one week following the exam to challenge the accuracy of your grade.

GROUP TESTS: You will be randomly assigned to a group of 6-7 students. For each of the six minitests given during the semester, you will be given an opportunity to take the same test a second time, this time with your group members and receive an additional grade. If you didn't understand a question on the exam, this is your opportunity to have it clarified and corrected for you by a member of your group. This instant feedback will not only improve your grade, but it will help you learn the material better. I have a folder for each of the groups. Each group will select a record keeper who will be responsible for keeping attendance and grades for the entire group. Completing the individual minitests first insures everyone will come prepared to the best of their abilities, and any problem groups will be dealt with at midpoint. Each of you will also complete an end-of-semester peer evaluation where you anonymously rate the contributions from all the other members of your group. The average group points you receive will be multiplied by your group peer evaluation average to determine what percentage you receive.

**If you fail to turn in your peer evaluations you will receive NONE of the group points. The instructor reserves the right to overrule the peer evaluation score.**

COMPREHENSIVE MIDTERM AND FINAL EXAM

Midterm – Room 404E

Final – 11:15 section: Friday, May 2, 12:00 - 3:00 p.m. Room 404E

– 1:25 section: Wednesday, April 30, noon - 3:00 p.m. Room 404E

CLICKERS: There will be daily quizzes given throughout the lecture period using remote response devices, “clickers”. These clicker questions will allow you to test your comprehension of the material while you are in class, so that if you don't understand a concept you will realize that and ask questions accordingly. Some of the questions will be survey questions for which you will receive credit just for answering. Most questions, however, will be right/wrong to encourage you to come to class prepared and to collaborate with your group members.

**ACADEMIC HONESTY:** All academic work must meet the standards contained in "A Culture of Honesty." Students are responsible for informing themselves about those standards before performing any academic work. <http://www.uga.edu/ovpi/honesty/acadhon.htm> Any person found using unauthorized assistance (including copying answers from another student during the individual minitests) will be immediately reported to the Office of the Vice President for Instruction. The minimum penalty for using unauthorized assistance is a failing grade, and the maximum penalty is suspension from the University.

<u>Possible Points for the Quarter</u>	<u>% of Total Points</u>
4/5 Minitests X 30 points = 120 points	A = 465-500 >93%
Clicker Quizzes = 55 points	A- = 450-464 >90%
Midterm = 100 points	B+ = 435-449 >87%
Final Exam = 150 points	B = 415-434 >83%
Group Minitests = <u>75 points X % peer score</u>	B- = 400-414 >80%
Total = 500 points	C+ = 385-399 >77%
	C = 365-384 >73%
	C- = 350-364 >70%

**INCOMPLETE:** The grade of incomplete is only given to students who for reason of illness or accident were unable to complete the course. Incompletes are not given to avoid a failing grade.

**BIOSCIENCE LEARNING CENTER (BLC) Room 406.** Computer lab with reserve textbooks, printers (\$0.05/page), and copiers \$0.10/page, Bulldawg Bucks only.

<u>DATE</u>	<u>DAY</u>	<u>LEC#</u>	<u>LECTURE TOPIC</u>	<u>TEXT READING</u>
1-7	MON	1	Global Cycling	Chapter 32, 710-715
1-9	WED	2	Atoms and Molecules	Chapter 2, 18-33, and Chapter 3, 35-44
1-11	FRI	3	Energy and Food	Chapter 6, 118-123
1-14	MON	4	Macromolecules: Carbohydrates	Chapter 3, 45-49
1-16	WED	5	finish Carbohydrates	
1-18	FRI		<u>Minitest 1: Chemistry and Carbs</u>	Ch 2, 3, 6, & 32
1-21	MON	no class: Dr. Martin Luther King Holiday		
1-23	WED	7	Macromolecules; Lipids	Chapter 3, 49-55
1-25	FRI	8	finish Lipids	
1-28	MON	9	Membranes	Chapter 5, 98-115
1-30	WED	10	Macromolecules; Proteins	Chapter 3, 56-65
2-1	FRI	11	Overview of Cells	Chapter 4
2-4	MON	12	Organelles	Chapter 4
2-6	WED		<u>Minitest 2: Lipids, Proteins, Cells</u>	Chapter 3-5
2-8	FRI	13	Structure of DNA	Chapter 13
2-11	MON	14	Courtroom DNA	Chapter 13, 250-255
2-13	WED	15	Gene Expression I	Chapter 14, 262-272
2-15	FRI	16	Gene Expression II	Chapter 14: 273-283
2-18	MON	16	Gene Expression III	Chapter 13, 256-258
2-20	WED	17	Recombinant DNA Technology	Chapter 15
2-22	FRI		<u>MIDTERM</u>	Chapters 2-6, 13-15, and 32
2-25	MON	18	Cell Division	Chapter 9, 170-187
2-27	WED	19	Cancer	
2-29	FRI	20	Sexual Reproduction; Meiosis	Chapter 10, 190-205
3-3	MON	21	Meiosis and Independent Assortment	
3-5	WED	22	Mendelian Genetics	Chapter 11, 206-219
3-7	FRI		<u>Minitest 3: Cell Reproduction/Mendel</u>	Chapters 9-11
3-10 thru 3-14 No class: Spring Break				
3-17	MON	23	Variations on Mendel	Chapter 11, 220-229
3-19	WED	24	Human Genetics	Chapter 12, 230-251
3-21	FRI	25	Human Genetics	Chapter 12
3-24	MON	26	Gene Therapy	
3-26	WED	27	Natural Selection	Chapter 16, 308-325
3-28	FRI	28	Microevolution	Chapter 17, 326-345
3-31	MON	29	finish Microevolution	
4-2	WED		<u>Minitest 4: Human Genetics/Evolution</u>	Chapters 11-12, 16
4-4	FRI	30	Baby Panic: Female Reproduction	Chapter 30, 650-659
4-7	MON	31	Female Reproduction & Contraception	Chapter 30, 661
4-9	MON	32	Human Male Reproduction	Chapter 30, 659-662
4-11	WED	33	Cloning & Stem Cells	Chapter 30, 662-3, section 15.3
4-14	MON	34	Bioethics	
4-16	WED	35	Enzymes and ATP	Chapter 6 123-131
4-18	FRI	36	Harvesting Energy from Food	Chapter 7, 132-139
4-21	MON	37	Harvesting Energy from Food	Chapter 7, 140-149
4-23	WED	38	Photosynthesis	Chapter 8
4-25	FRI		<u>Minitest 5: Reproduction and Energy</u>	Chapters 6-8
4-28	MON	39	optional review session for final exam	

\*This syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary.