



BIOLOGY 102: Introductory Biology II Spring 2003

INSTRUCTOR: Dr. Heather Bennett

OFFICE: SBDG 209

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E-MAIL: HeatherB@usca.edu (often the quickest way to reach me!)

OFFICE HOURS:

LECTURE: MWF 8:00-8:50 A.M., SBDG 327

LABORATORY: SBDG 103; syllabus will be distributed in lab

01.....Monday 2:30-5:10 P.M. (Dr. Bennett)

02.....Tuesday 8:00- 10:40 A.M. (Dr. Dyer)

03.....Tuesday 12:15-2:55 P.M. (Dr. Schaff)

04.....Tuesday 3:05-5:45 P.M. (Dr. Schaff)

05 Wednesday 9:00-11:40 A.M. (Dr. Hanlin)

YOU MUST BE ENROLLED IN and ATTEND A LABORATORY SECTION!!

TEXTBOOK:

Krogh (2002). Biology A Guide to the Natural World. Prentice-Hall Publishers.

OR

Raven and Johnson (2002). Biology. 5th **OR** 6th edition . McGraw-Hill Publishers.

AND

ABIO 102 Laboratory Manual (available in the bookstore).

SUPPLIES

Required: quad-ruled laboratory notebook (available in the bookstore). Please note that you **MAY NOT** use loose-leaf graph paper—your book should be a bound one. You will also need a ScanTron answer sheet (the long skinny kind) for each lecture exam.

Recommended: Colored pencils, gloves (if you are squeamish), eye protection (such as goggles or safety glasses). If you own a dissection kit, and prefer to use it, please feel free to bring it!

COURSE DESCRIPTION: Biological principles and concepts from the tissue through the ecosystem levels of organization.

METHODS OF PRESENTATION: There will be a variety of presentation styles in this course, including traditional lectures by the professor. Student questions are strongly encouraged! Laboratories will be entirely hands on, and will combine observation of both living and preserved organisms in the laboratory, experiments, as well as occasional field trips to local habitats.

METHODS OF EVALUATION: Grades will be determined by lecture exams, practical examinations in the laboratory, along with shorter lecture/lab assignments.

GRADING: You have the opportunity to earn a total of 800 points in this course. These points will be distributed in the following manner:

Lecture exams.....4@ 100 points each.....	400
Laboratory practical exams.....2@ 50 points each.....	100
Lab Notebook.....2 @ 25 points each....	50
Final exam (cumulative).....200 points.....	200
Weekly lab quizzes.....	50
TOTAL.....	800

A grade of 90% (720 pts) or above will guarantee an A; an 80% (640 pts.) or above will guarantee a B; a grade of 70% (560 pts.) or above will guarantee a C; a grade of 60% (480 pts.) or above will guarantee a D; typically, a grade of less than 59% (472 pts. or less) will NOT be a passing grade.

Note 1: You must earn a passing grade in the laboratory in order to pass the course. If you fail the lab, you will fail the course, regardless of your lecture grade.

Note 2: You must also attend a minimum of 70% of the laboratory meetings in order to pass. This means that you can only miss three (3) laboratories during the semester. If you miss more than that, you will fail the lab, and also fail the course. You should discuss any expected or unexpected absences with your laboratory instructor. It is very difficult to make up a lab so please plan on attending all of the lab periods.

WHAT I EXPECT FROM YOU:

1. I expect you to have done the assigned reading *BEFORE* the lecture and lab.
2. I expect you to be an active and enthusiastic participant in all lecture and laboratory exercises.
3. I expect you to be respectful to the instructor and the other students in the course.
4. I expect you to be ON TIME for lecture and laboratory.

ADDITIONAL INFORMATION:

1. Attendance and Make-up Policy: I do not take attendance every day, but will check it occasionally. It is in your best interest to attend every lecture and laboratory session. While you could get the lecture notes from a sympathetic classmate, it is virtually impossible to make up a laboratory. *If you are absent it is **YOUR** responsibility to find out what you missed!*

If you miss a lecture exam it is *your* responsibility to follow the following procedure in order to make it up:

- 1) You must contact me NO LATER than 11:00 A.M. on the day the test was administered to explain your absence. You can use e-mail or call my office. If I am not in my office, you will need to leave a message with Mrs. Cutsinger in the main office, or leave a message on the main office answering machine.
- 2) Make up exams will only be given under extreme circumstances, and only for those reasons outlined in the student handbook. Some examples of acceptable excuses are: illness/injury requiring a doctor's care, death in the immediate family (grandparent, parent or brother/sister), or official USCA activity such as a sport. Examples of unacceptable excuses are: appointments of any kind (including advisement!), oversleeping, vacation at times other than official University holidays, car trouble, or funerals (unless I am notified at least 48 hours in advance of the funeral).
- 3) You must provide documentation of your absence upon my request. Examples of documentation include but are not limited to a doctor's note, official death notice, police report, written note from USCA coach, etc.
4. Make-up exams will be given at my discretion and convenience and may be in one of two formats (my choice): an oral exam, or a series of lengthy essay questions. ***No exceptions to these policies and procedures will be made.***

NO MAKE-UPS WILL BE GIVEN ON LABORATORY EXAMS!!!

2. Honor pledge: You must endorse the following honor pledge on each lecture and laboratory assignment:

On my honor as a University of South Carolina at Aiken student, I have neither given nor received any unauthorized aid on this assignment or examination. To the best of my knowledge, I am not in violation of academic honesty.

3. If you need help: Please *ASK FOR HELP* if you need it! If you are unable to come to my posted office hours, *MAKE AN APPOINTMENT* to see me or just drop by my office. I don't bite. You can also see any of the laboratory instructors if I am not available. They don't bite either.

4. Disability statement: If you have a physical, psychological, and/or learning disability which might affect your performance in this class, please contact the Office of Disability Services, 126A B&E, (803) 641-3609, as soon as possible. The Disability Services Office will determine appropriate accommodations based on medical documentation.

Schedule for Lecture:

**Please note that the schedule of topics for lecture may change, but the dates for lecture and laboratory exams will *not*. You will receive a separate syllabus for laboratories from you lab instructor.

DATE	TOPIC	READING ASSIGNMENT
January		
10	Introduction to the Class	
13	What is Science?	Chapter 1
15	History of Earth	Chapter 19.1-19.7
17	Evolution I: Evolutionary Thought; Darwin	Chapter 16
22	Evolution II: Natural Selection	Chapter 16
24	Evolution III: Microevolution	Chapter 17
27	Evolution IV: Macroevolution	Chapter 18
29	Taxonomy and Systematics	Chapter 18.4-18.5
31	Mitosis and Meiosis	Chapter 9.3-9.5; Chapter 10.1-10.3
February		
3	EXAM I	
5	Levels of biological organization; Viruses and Prions: Alive or Not??	Chapter 1.4 Chapter 20.1
7	Bacteria	Chapter 20.2
10	Prokaryotes → Eukaryotes; Kingdom Protista	pp. 387-388 Chapter 20.5
12	Kingdom Fungi	Chapter 20.6
14	Plant diversity and some life cycles	Chapter 20.7
17	Angiosperms I	Chapter 22.2, pp. 484-490
19	Angiosperms II	Chapter 23.1-23.6, pp. 482-483
21	Angiosperms III	Chapter 23.7-23.8
24	Animal Development	Chapter 21.1, 21.2, 27.1 (through p. 624)
26	EXAM II	
28	Animal Diversity I	21.3-21.5

March		
3	Animal Diversity II	21.6-21.9
5	Animal Diversity III	21.10-21.11
7	Human Systems I	Chapter 24-25
17	LAB EXAM I	MEET IN THE LAB!!
19	Human Systems II	Chapters 25-26
21	Human Development I	Chapter 28.1-28.3
24	Human Development II	Chapter 28.4-28.6
26	Human Evolution	Chapter 19.8
28	EXAM III	
31	Animal Behavior I	Chapter 31.1-31.4
April		
2	Animal Behavior II	Chapter 31.5-31.7
4	Biomes	Chapter 30.5
7	Nutrient Cycles	Chapter 30.2
9	Energy Flow	Chapter 30.3
14	Populations I	Chapter 29.1-29.2
16	Populations II	Chapter 29.3--29.4
18	LAB EXAM II	MEET IN THE LAB
21	Communities	Chapter 29.5-29.6
23	EXAM IV	
25	Communities	Chapter 29.6-29.7
28	Catch-Up/Review/etc.	

FINAL EXAM FRIDAY 2 MAY 2003 8:00 A.M. SBDG 327

Laboratory Schedule

Week of.....	Lab Exercises
January 13	Introduction to the Lab; Scientific Method; Animal Behavior
January 20	NO LAB THIS WEEK
January 27	Microscopy; Mitosis and Meiosis
February 3	Kingdom Fungi FIELD TRIP--Dress appropriately!! Plant Experimental Plants
February 10	Plant Survey and Life Cycles I: Nonvascular and Vascular Plants
February 17	Plant Survey and Life Cycles II: Monocots and Dicots Experiments continued
February 24	Plant Tissues Experiments continued
March 3	Flowers, Fruits and Seeds Experiments continued Computer lab
MONDAY March 17	LAB MIDTERM EXAMINATION DURING LECTURE TIME NOTEBOOKS ARE DUE
March 17	Animal Development Begin <i>Lemna</i> project
March 24	Animal Diversity I
March 31	Animal Diversity II
April 7	Animal Form and Function
April 14	Computer lab for data analysis
FRIDAY APRIL 18	LAB FINAL EXAMINATION DURING LECTURE TIME
April 21	Trophic Pyramids and Food Webs NOTEBOOKS AND LEMNA REPORTS ARE DUE