

THE UNIVERSITY OF ALABAMA

Tentative Course Syllabus--BSC 116—PRINCIPLES OF BIOLOGY II (Fall 2003)

Date	Chapter and topic(s)
21 Aug	Chapter 28--Origins of eukaryotic diversity
26 Aug	Chapter 28--Survey of protists
28 Aug	Chapters 29--Plant diversity I
2 Sept	Chapter 29, 30--Plant diversity I, II
4 Sept	Chapters 30, 31--Plant diversity II, Fungi
9 Sept	Chapter 31--Fungi
11 Sept	Chapter 35--Plant structure and growth
11 Sept	5:00 pm, Review for Test I
16 Sept	Chapter 36--Transport in plants
18 Sept	Chapter 37--Plant nutrition
18 Sept	5:00 pm, Test I, Chapters 28-31, 35 BRING ID
23 Sept	Chapter 38--Plant reproduction and biotechnology
25 Sept	Chapter 39--Plant responses to internal and external signals
30 Sept	Chapter 32 and p. 1002-7--Introduction to animal evolution
2 Oct	Chapter 33--Invertebrates
7 Oct	Chapter 33--Invertebrates
9 Oct	Chapters 33, 34—Invertebrates and vertebrates
9 Oct	5:00 pm, Review for Test II
14 Oct	Chapter 34--Vertebrates
16 Oct	Chapter 34--Vertebrates
16 Oct	5:00 pm, Test II, Chapters 33, 34, 36-39. BRING ID
21 Oct	Lecture only--Physicochemical principles
23 Oct	Lecture only--Physicochemical principles
28 Oct	Chapters 41, 46--Animal nutrition, animal reproduction
30 Oct	Chapter 46--Animal reproduction
4 Nov	Chapter 42--Circulation and gas exchange
6 Nov	Chapter 42--Circulation and gas exchange
6 Nov	5:00 pm, Review for Test III
11 Nov	Chapter 44--Regulating the internal environment
13 Nov	Chapter 44--Regulating the internal environment
13 Nov	5:00 pm, Test III. Chapters 41, 42, 46 and Physicochemical Principles. BRING ID
18 Nov	Lecture only--Adaptation and physiological ecology
20 Nov	Chapter 52—Population ecology
25 Nov	Chapter 53—Community Ecology
27 Nov	THANKSGIVING
2 Dec	Chapter 54--Ecosystems
4 Dec	Chapter 54--Ecosystems
4 Dec	5:00 pm, Review for last examination.
11 Dec	8:00 - 10:30 AM Last examination—Chapters 44, 52-54, Physiological Ecology—BRING ID

Course Description: This course is designed primarily for biology majors and biology minors. Study of the structure, function, and ecology of organisms, including protists, bryophytes, vascular plants, invertebrate animals, and vertebrate animals.

Course Objectives: To familiarize the student with the structure, function, and ecology of organisms.

Textbook: *Biology*, 6th edition, by Neil A. Campbell and Jane B. Reece. Benjamin/Cummings Publishing Company, Inc.

Notes: Class notes for Dr. Ultsch's sections of this course are available on the web. The notes will closely follow the lecture material, but new information is constantly being incorporated into the course, and the notes reflect only whatever updating has occurred by the beginning of the current semester. The notes are intended, however, to be a supplement to lecture attendance, not a substitute for it. The intent is to lessen the time you need to spend taking notes during class to allow you more time to follow the lectures. The notes on the web also will not include the many figures used in lecture, so in order to integrate the notes with the figures, you must attend class.

Class attendance: Attendance is expected but not required. *Students are responsible for announcements made in class, including changes in test dates—note that the schedule above is tentative.* Generally, students who attend class do better than those that don't.

Office hours: Office hours for Dr. Ultsch (Room 211) and Dr. Burckhalter (Room 411) are 11-12 and 2-3, Tuesday and Thursday. Students who need to make appointments for other times can do so by contacting the instructor. Office telephone numbers are 348-1827 (Dr. Ultsch) and 348-4434 (Dr. Burckhalter).

Review sessions: The Thursday 5:00 PM session is used for a reviews and examinations. Students are encouraged to attend these review sessions and to ask questions on material that they believe needs additional explanation.

Make-up tests: No excuses are required to take a make-up test. Make-ups for the first three examinations will be at 5:00 PM on Friday, 5 December in the lecture room unless other arrangements are made with the professor. Make-ups for the final are by arrangement with Dr. Ultsch. It is definitely to the student's advantage to take regularly scheduled examinations. Make-up examinations, while not designed to be more difficult, are in essay format, and traditionally students score significantly higher on the regularly scheduled, objective examinations. There are no make-ups for the make-ups.

Tests and Grading: Bring several #2 pencils **and your ID** to all examinations. *Final grades are based on examination scores only.* Each of the four tests will count 25% of the final grade (each test covers only the material since the previous test). Any scaling of grades will be done for individual examinations. Grading (expressed as a %) is A+ (98-100), A (92-97), A- (90-91), B+ (88-89), B (82-87), B- (80-81), C+ (78-79), C (72-77), C- (70-71), D+ (68-69), D (62-67), D- (60-61), F (<60).

Academic misconduct: The University of Alabama expects all students to conduct their studies in an honorable manner. Any form of academic misconduct will result in appropriate penalties, which may include dismissal from the university.

Students with disabilities: Students with disabilities are encouraged to register with the Office of Disability Services (call 348-4285). Thereafter, please schedule an appointment with Dr. Ultsch to discuss accommodations.

BSC 117 LABORATORY SCHEDULE GENERAL BIOLOGY II

Dr. Jane Rasco, Laboratory Director
Room 236 Phone 348-1802
E-Mail: Jrasco@Biology.as.ua.edu

LABORATORY SCHEDULE

<u>DATE</u>	<u>TOPIC</u>
Jan. 13-15	Introduction to Kingdoms, Protista, Fungi
Jan. 20-22	Mosses, Ferns, Fern Allies
Jan. 27-29	Plant Anatomy, Plant Growth
Feb. 3-5	Gymnosperms, Angiosperms
Feb. 10-12	TEST I
Feb. 17-19	Development, Porifera, Cnidaria
Feb. 24-26	Platyhelminthes Nematoda
Mar. 2-4	Mollusca, Annelida
Mar. 9-11	Echinodermata Arthropoda
Mar. 16-18	TEST II
Mar. 23-25	Chordata
March 29-April 2	****NO LABS - SPRING BREAK ****
April 6-8	Rat: Cardiovascular
April 13-15	Rat: Respiratory, Urinary
April 20-22	Rat: Digestive, Reproductive
April 27-29	TEST III

BSC 117 LABORATORY POLICIES

OBJECTIVES AND PREREQUISITES

In this class you will be introduced to (a) the diversity of life forms and (b) elements of form, structure and function in selected animals and plants. The syllabus presumes a good quality course in High School biology and knowledge gained from BSC 115 (General Biology I Laboratory) or its equivalent. This course is designed to give majors in *BIOLOGY* and *Pre-PROFESSIONAL PROGRAMS* a “hands on” opportunity to interpret microscopic and macroscopic structure through slides and dissection.

LABORATORY SUPPORTING MATERIAL

1. **Customized Biology Laboratory Manual** by Vodopich and Moore
2. **Photographic Atlas For The Biology Laboratory** by Van De Graff and Crawley.

LABORATORY POLICIES

1. Each pair of students in a lab section will be assigned a microscope and a slide box for use during their laboratory period (3 hrs/week). Each pair of students is responsible for the slide box during its period of use. Please be prompt in reporting broken or missing slides associated with your box number to your supervising TA.
2. Please be sure to rack down your microscope and put it and your micro slide box in their proper numbered space.
3. Clean work area before leaving the lab by:
 - a. washing dissecting instruments and dissecting pan
 - b. washing microscope slides used for wet mounts and draining them on paper towels
 - c. discarding used specimens in RED WASTE CONTAINER
 - d. throwing trash in trash cans

POLICIES ON SAFETY

1. Smoking is prohibited in the Biological Sciences building.
2. Use of oxygen permeable contact lenses during dissection is prohibited.
3. Use gloves when dissecting specimens.
4. No eating or drinking is allowed in the labs.

ACADEMIC MISCONDUCT

All acts of dishonesty in any work constitute academic misconduct. This includes, but is not limited to, cheating, plagiarism, or fabrication of information, misrepresentations, and abetting any of the above. The Academic Misconduct Disciplinary Policy will be followed in the event that academic misconduct occurs. Students should refer to the Student Affairs Handbook, which can be obtained in the Office of Student Life and Services in the Ferguson Center.

DISABILITY SERVICES

If you are registered with the Office of Disability Services, please make an appointment with Dr. Rasco as soon as possible to discuss any course accommodations that may be necessary. If you have a disability but have not contacted the ODS, please call 348-5175 or visit Osband Hall to register for services

COMPUTER LABS

Building	Room #	Phone #	Availability
Morgan	203/238	8-8493	All U of A students
Gordon Palmer	152	8-8598	All U of A students
Ten Hour	346	8-9264	All U of A students
Nott Hall	171	8-9885	MA 005 & 100 students

TUTORS

If you need help with the course,

1. Tutors are available in the Teaching and Learning Center located in Osband Hall.
Call 348-5175 to make an appointment.
2. Your lab instructors are available during their office hours.

POLICIES ON EXAMINATIONS AND GRADING

EVALUATION

The laboratory grade is based on weekly quizzes, one written report and three tests.

1. Distribution of points:

Best 7 of 9 weekly quizzes (20 pts each)	140 points
Writing assignments (1)	100 points
<u>Tests 100 pts each</u>	<u>300 points</u>
TOTAL POINTS	540 points

2. Writing assignment

One lab report will be assigned; it must be completed and given to your instructor on the due date. **Students must attend the lab or the lab report will not be accepted.**
NO LATE LAB REPORTS WILL BE ACCEPTED.

3. Quizzes will be 20 point practicals with 15 points coming from the previous lab and 5 points from the current lab.
4. Tests will be practical examinations each worth 100 points.

POSTING GRADES

Grades will not be posted. Please see your teaching assistant during his/her office hours to ask about grades or to review tests

GRADING SCALE

A+ = 99-100	B+ = 88-89	C+ = 78-79	D+ = 68-69	
A = 92-98	B = 82-87	C = 72-77	D = 62-67	F = <60
A- = 90-91	B- = 80-81	C- = 70-71	D- = 60-61	

POLICY CONCERNING LAB MIDTERM AND FINAL EXAM ABSENCES

Make-up exams to be arranged; call instructor or Dr. Rasco.