

SCHEDULE OF TOPICS – Fall 2008
BIOL 1730: Principles of Biology I Laboratory

<u>WEEK OF</u>	<u>TOPIC / ACTIVITY</u>	<u>ASSESSMENT</u>
AUG 25	Orientation / Safety Introduction to Science and Research Methods Ex. 2 - MEASUREMENTS IN BIOLOGY	Quiz 1
SEP 1	Ex. 6 – BIOLOGICALLY IMPORTANT MOLECULES	PL 1; Quiz 2
SEP 8	Ex. 3 – THE MICROSCOPE: Basic Skills of Microscopy	PL 2; Quiz 3
SEP 15	Ex. 4 – THE CELL: Structure & Function	PL 3; Quiz 4
SEP 22	Ex. 9 - DIFFUSION AND OSMOSIS: Passive Movement of Molecules in Biological Systems	PL 4; Quiz 5; W 1
SEP 29	Ex. 11 – ENZYMES: Factors affecting the Rate of Activity	PL 5; Quiz 6
OCT 6	Ex. 12 – RESPIRATION: Aerobic and Anaerobic Oxidation of Organic Molecules	PL 6; Quiz 7
OCT 13	<u>EXAM #1</u>	Exam 1
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OCT 20	Ex. 13 – PHOTOSYNTHESIS: Pigment Separation, Starch Production & CO ₂ Uptake	PL 7; Quiz 8
OCT 27	Introduction to Biotechnology, Part I Ex. 14 – MITOSIS: Replication of Eukaryotic Cells	PL 8; Quiz 9
LAST DAY TO DROP A CLASS – TUESDAY, 10/28/08		
NOV 3	Introduction to Biotechnology, Part II Ex. 15 – MEIOSIS: Reduction Division and Gametogenesis	PL 9; Quiz 10; W 2
NOV 10	Ex. 17 – GENETICS: The Principles of Mendel	PL 10; Quiz 11
NOV 17	Ex. 18 – EVOLUTION: Natural Selection	PL 11; Quiz 12
NOV 24	NO LABS; <u>Thanksgiving Holiday</u>	--
DEC 1	<u>EXAM #2</u>	Exam #2
DEC 8	NO LABS; <u>Lecture Finals</u>	--

Note: Students are responsible for knowing all testing dates as well as the material to be tested. Students are furthermore responsible for coming to lab prepared to perform that week's activity.

BIOLOGY 1730 – Principles of Biology I Laboratory Syllabus – FALL 2008

Lab Manual & Supplies

Biology Laboratory Manual, 8th edition (customized), Vodopich and Moore

Please bring your lab manual to each lab session.

Course Description and Objective

Biol 1730, Principles of Biology I, is the first course in a two-course freshman sequence for students majoring in the biological sciences or who are seeking to satisfy a portion of the Natural Sciences requirement of the University Core Curriculum. The objective of this course is to provide students with laboratory techniques and concepts consistent with the principles taught in Biol 1710: cell and molecular biology with an emphasis on biological chemistry, cell structure and function, Mendelian genetics, evolutionary biology and introductory biotechnology applications.

Expectations & Policies

Attendance

- Attendance in lab is mandatory. In the event of an absence, it is your responsibility to contact the lab instructor as soon as possible to obtain important information. Note: You are responsible for obtaining notes from a classmate, as your lab instructor will not provide copies of notes.
- Students are expected to attend the lab section in which they are enrolled. All scheduling changes must be made during the schedule revision period.
- There are no make-up labs. Because everyone gets sick and emergencies arise, the lowest two quiz grades will be dropped at the end of the semester. Note: These are NOT “skip” grades.
- Because a successful laboratory experience is dependent upon regular attendance, your instructor reserves the right to drop you from the course with the grade of WF should you incur more than two (2) absences (regardless of the reason for the absence).

Classroom Policies and Conduct

The laboratory environment is structured so that the lab instructor will provide background information necessary for experimental protocol, as well as safety information and other instructions. Students will then interact in groups to conduct experiments, discuss and review results. Finally, students are responsible for maintaining the workstations. To help ensure a positive lab experience for all class members, you are asked to observe the following class policies:

- Display respect for your instructor and fellow classmates by following the Student Code of Conduct as outlined in the University of North Texas Bulletin via words, actions and deeds.
- You are expected to arrive to class on time. Arriving late could result in a loss of points for that day.
- You are expected to remain in class for the duration of the lab period. Leaving class early will result in a loss of points.
- Please limit personal conversations to times other than class time.
- Cell phones and all other electronic devices should be turned off before class. (The exceptions to this rule are electronic devices deemed necessary by the Office of Disability Accommodations. Please provide appropriate paperwork if such devices are required.)
- Unless otherwise indicated, you are expected to do your own work on all graded items, including, but not limited to, quizzes, pre-lab assignments, writing assignments, and exams.
- You are expected to fully participate in all lab activities and assist lab partners.
- You are expected to value differences of opinion.

Lab Rules – See “Safety Rules” for additional lab policies

No food or drink is allowed in the lab. NO EXCEPTIONS!

Students may not leave until their station is clean and they have checked out with the TA. Failure to do so could result in a ZERO for that day’s quiz.

Policy on Academic Misconduct

No cheating will be tolerated. Anyone cheating (all forms) or exhibiting behaviors consistent with cheating, including, but not limited to, assisting other students with cheating: talking during a testing event, sitting too closely to other students, leaving an answer sheet uncovered, etc., will receive as a minimum punishment a grade of zero for the graded item. More severe punishment will be taken depending upon the circumstances. Any and all incidents of academic dishonesty will be reported to the appropriate authorities.

Policy on Disability Accommodations

The Department of Biological Sciences, in cooperation with the Office of Disability Accommodation, complies with Section 504 the Americans with Disabilities Act in making reasonable accommodations for qualified students with disabilities. Please present your written request to your lab instructor before or on the 12th class day so that the necessary arrangements may be made.

Assessment & Grading

Assessment

- A pre-lab assignment worth up to five (5) points is due at the **beginning** of each lab period. Late pre-lab assignments will not be accepted. No pre-lab assignment grades will be dropped.
- A quiz worth up to ten (10) points will be administered at the end of each lab period. Eighty percent of the point value will be from the current week’s material, with the remaining 20% from the previous week’s material. Twelve quizzes will be administered over the course of the semester. The lowest two quiz grades will be dropped at the end of the semester. For this reason, missed quizzes may not be made-up.
- Two writing assignments worth up to ten (10) points will be assigned during the semester. Late writing assignments will not be accepted. No writing assignment grades will be dropped.
- Two practical exams will be administered during the semester. Exam questions will include a variety of formats including, but not limited to, short answer, labeling / diagramming, drawing, and fill-in-the-blank. There are no make-ups for missed exams. Exam grades will NOT be dropped.
- Note: The lab instructor reserves the right to deduct points, at his or her discretion, for any behaviors that are inconsistent with the policies of the lab course.

Grading

Pre-lab assignments (11 @ 5 pts)

= 55

Quizzes (10 @ 10 pts)

= 100

Writing assignments (2 @ 10 pts)

= 20

Exams (2 @ 100 pts)

= 200

Total Possible Points

375

Grading Assignments

90 – 100% = A

80 – 89% = B

70 – 79% = C

60 – 69% = D

Below 60% = F

Release of Grades: The Family Educational Rights and Privacy Act (FERPA) (1974), does not permit faculty or staff to report grades by phone or email.

Students who will miss an exam for one of the following reasons should contact the 1730 lab supervisor immediately:

- Participation in sponsored University activity (requires prior notice + presentation of authorized absence card from the Dean of Students Office);
- Observance of a religious holiday (must notify instructor in writing within the first 15 days of the semester); or
- Qualified medical excuse (documentation required; instructor must be contacted within three days of absence).

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