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BIOL 130, Biology I Lecture, Fall 2010

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Biology 130 Lecture Syllabus

Fall Semester 2010

Biology 130 is a team-taught course, in which three faculty members serve as your professors. The approach offers a number of advantages to you as a student. Among these are: 1) each of the biological sub-disciplines in this course will be represented by a professor who has a special depth of experience and understanding in that area based upon a strong, ongoing program of scholarly contributions in the field; and 2) this allows you to meet a wider range of biology faculty members and to more quickly become acquainted with a variety of lecturing and testing styles in science. We believe that your experience with this format will improve your depth of knowledge in the subject, provide you a more stimulating learning environment, and help you make more informed future course selections if you continue to study biology.

Professors:

[Dr. Terry W. Hill](mailto:hill@rhodes.edu), FJ-110W, x3559, hill@rhodes.edu [Course Coordinator]
[Dr. Laura Luque de Johnson](mailto:luquedejohnsonl@rhodes.edu), FJ-142E, x3558, luquedejohnsonl@rhodes.edu
[Dr. Jonathan N. Fitz Gerald](mailto:fitzgeraldj@rhodes.edu), FJ-128W, x3560, fitzgeraldj@rhodes.edu

All course administrative questions, such as dropping or adding the course, withdrawing from the course, etc. should be addressed to the course coordinator (Dr. Hill).

The quickest and easiest way to contact a faculty member is by e-mail. The professors read their messages regularly and will use email to contact individual students and send group messages to the class. Thus, you should check your account on a daily basis. **Timely email communications from the professors to the class have the same weight as do announcements made in class.**

Honor Code:

It should go without saying that your conduct in this course must adhere in every regard to the Rhodes College Honor Code. This system is critical to maintaining the Rhodes Community, and we must all be diligent in our responsibilities. For more information on the Rhodes honor code system go to <http://www.rhodes.edu/Honor/index.cfm>.

Text:

Biology: Campbell and Reece (8th edition), Benjamin Cummings.

Attendance Policy:

Though a record of attendance in lecture will be kept, no penalty will be levied if you are absent. Still, you must recognize that each absence impairs your ability to learn the material and to do well in the course. If you find you are having difficulty, your attendance record may be of relevance when you discuss your progress with your professors.

Grading:

Your final course grade will be based upon your performance on examinations and quizzes, as well as on detailed reports submitted after attending college-sponsored research seminars. The relative weights of these components are as follows:

Examinations	The average of your final exam grade and the two highest grades out of your three midterm exams	85%
Quizzes	The average of all quizzes taken during the semester, minus your three lowest scores	10%
Seminars	Attendance at 3 seminars is expected	5%

Final letter grades will be assigned according to the following scale:

Grading Scale for Biology I Lecture				
Grade	Score		Grade	Score
A	93-100		C	73-76.9
A-	90-92.9		C-	70-72.9
B+	87-89.9		D+	67-69.9
B	83-86.9		D	63-66.9
B-	80-82.9		D-	60-62.9
C+	77-79.9		F	59.9 or less

Midterm grades and evaluation for withdrawal (withdraw-passing vs. withdraw-failing) will be based upon all of your graded work up to that point.

Examinations:

There will be a midterm exam following each of the three sections of the course, plus a comprehensive final examination at the end of the semester. In calculating your overall examination average, the lowest of your three midterm exam grades will be dropped. The final exam score will not be dropped when calculating the final course grade, and you must take the final examination in order to pass the course.

Alternate exam times or make-ups for missed exams will be granted only in the most unusual of circumstances, normally limited to documented medical emergencies involving the student or a member of the student's immediate family. Midterm exams must be taken with the class section in which you are enrolled, although you may take the final exam at whichever of two scheduled times is more convenient for you.

Quizzes:

Quizzes will be taken via the Moodle course management system, which is accessible through the Rhodes home page or at <https://moodle.rhodes.edu/clogin.php>. Each quiz will be available for a 24-hour period ending at 7:30 AM on the respective date indicated in the lecture schedule; access is automatically closed after that time. A grade of zero will be assigned for any quiz not completed within the allowed time.

At the end of the semester, your three lowest quiz grades will be dropped in calculating your final grade. This generous policy allows for a reasonable number of occasions where a student may be unable to take a quiz because of technical or other issues. No extended or alternate time will be provided to students who are unable to complete a quiz because of technical failures unless it has resulted from a system-wide problem.

Students are individually responsible for maintaining a reliable connection to the college network, for installing correct versions of software on any personal computers used for taking quizzes, and for learning how to operate efficiently within the Moodle system. The Rhodes ITS Department (help@rhodes.edu; ext. 3890) will assist you with all hardware, software, and network questions.

It is important to your progress in the course that your quiz grades provide accurate feedback about how well you're learning course material. Thus, **you may not use notes, books, or other forms of assistance while taking a quiz.** In addition – for practical reasons, quizzes each year include numerous questions that were asked before in preceding years. Therefore, your obligations under the Honor System include the following:

When studying for quizzes you will not look at older copies that former students may have archived in violation of this rule. You also will not show copies of any quiz from this course to any other student, nor will you archive them for future students.

Seminar Series:

Each semester several seminars will be sponsored by the Biology Department, and you are expected to attend three of these seminars as part of your class involvement. Within one week after attending the seminar, you must submit a **seminar evaluation form** ([link](#)) to the Biology Department Assistant in FJ-102W. Late submissions will not be accepted.

While full seminar credit can be obtained by submitting well-completed evaluations of just the required three seminars, responsible submission of more than just that number of evaluations will increase your likelihood of receiving full credit for this component of the course.

You should print off the seminar evaluation form before you attend your first seminar, so you can know in advance what kind of evaluation is expected of you. When attending seminars please be on time, remain for the full presentation (including the question & answer period), and listen respectfully to the speakers. *You are strongly encouraged to ask questions of the speakers during the question & answer period.*

Access to supplemental course materials:

Supplemental course materials such as lecture PowerPoint presentations, videos, etc. will be made available either via Moodle or via the college *Acad_Dept_Pgm* file server. The link \\fileserv1\Acad_Dept_Pgm\Biology\Biology_I\Public will connect you to the correct sub-folder of the server if you are connected to the campus network – to access from off campus, contact the ITS HelpDesk (help@rhodes.edu) for instructions on establishing a connection.

Schedule of Lectures, Quizzes, and Examinations:

Date	Topic	Quiz	Readings*
August 26	Energy, Structural Complexity, and Life (Dr. Hill)		CH 1
August 31	Basic Chemistry: The Power of Weak Bonds (Dr. Hill)	Quiz 1	CH 2 and 3
September 2	Organic Molecules (Dr. Hill)	Quiz 2	CH 4 and 5
September 7	Protein Structure and Function (Dr. Hill)	Quiz 3	CH 5
September 9	Enzymes and Chemical Reactions (Dr. Hill)	Quiz 4	CH 8
September 14	Cell Structure, Secretion, and Motility (Dr. Hill)	Quiz 5	CH 6
September 16	Cell Membranes and Membrane Transport (Dr. Hill)	Quiz 6	CH 7
September 21	Cell Division (Dr. Hill)	Quiz 7	CH 12
September 23	Special Topic: TBA	Quiz 8	CH 31.1; URL
September 28	First Midterm Exam		
September 30	Introduction & Meiosis (Dr. Luque de Johnson)		CH 13
October 5	Mendel and Gene Interactions (Dr. Luque de Johnson)	Quiz 9	CH 14
October 7	Chromosome Dynamics and Phenotypes (Dr. Luque de Johnson)	Quiz 10	Ch 15
October 12	DNA Structure and Replication (Dr. Luque de Johnson)	Quiz 11	Ch 16
October 14	DNA Replication and Repair (Dr. Luque de Johnson)	Quiz 12	Ch 16
October 19	No Class - Fall Break		
October 21	Gene Expression: Transcription (Dr. Luque de Johnson)	Quiz 13	CH 17, 20
October 26	Gene Expression: Translation (Dr. Luque de Johnson)	Quiz 14	Ch 17
October 28	Special Topic: TBA	Quiz 15	
November 2	Second Midterm Exam		
November 4	Introduction to Cellular Metabolism (Dr. Fitz Gerald)		CH 6.5,8.1-8.3,9.1
November 9	Light Reactions of Photosynthesis (Dr. Fitz Gerald)	Quiz 16	CH 10.1-10.2
November 11	Stroma Reactions of Photosynthesis (Dr. Fitz Gerald)	Quiz 17	CH 10.3-10.4
November 16	Glycolysis and Citric Acid Cycle (Dr. Fitz Gerald)	Quiz 18	CH 9.2-9.3
November 18	Oxidative Phosphorylation (Dr. Fitz Gerald)	Quiz 19	CH 9.4-9.5
November 23	Cellular Communication (Dr. Fitz Gerald)	Quiz 20	CH 9.6,11.1-11.4
November 25	No Class -Thanksgiving Recess		
November 30	Modern Systems Biology (Dr. Fitz Gerald)	Quiz 21	CH 39.1,3-4
December 2	Special Topic: TBA	Quiz 22	
December 7	Third Midterm Exam		
Dec. 10 or 15	Final Exam (1:00 PM Dec 10 or 5:30 PM Dec 15)		

* **Readings** should be reviewed for general familiarity before the corresponding lectures and read again in greater detail in studying for exams. Guidance will be given in lecture regarding which specific details and concepts from these readings may be most emphasized on quizzes and exams.