

Biology I

Lecture Syllabus

Biology 130 Fall 2004

This is the syllabus for the lecture portion of Biology I. If you would like the syllabus for the laboratory click on [LABORATORY](#)

Instructors (in order of appearance):

Dr. Lisa Kadlec, FJ114W, x3699

Dr. Gary Lindquister, FJ108W, x3564

Dr. Chuck Stinemetz, FJ128W, x3560

Dr. Mary Miller, FJ104W, x3556

Text: Biology: Campbell and Reece (6th edition), Benjamin Cummings.

| Date | Topic | Quiz | Readings |
|--------------|---|------|----------------------------|
| August 26 | Course Introduction, The Nature of Life | none | CH 1 |
| August 31 | Basic Chemistry | Quiz | CH 2 and 3 |
| September 2 | Organic Molecules | Quiz | CH 4 and 5 |
| September 7 | Protein Structure and Function | Quiz | CH 5 |
| September 9 | Enzymes and Chemical Reactions | Quiz | CH 6 |
| September 14 | Cell Structure, Secretion, and Motility | Quiz | CH 7 |
| September 16 | Cell Membranes and Membrane Transport | Quiz | CH 8 |
| September 21 | FIRST EXAM | none | none |
| September 23 | Nature of Genetic Material | none | pp. 287-292 and 354-356 |
| September 28 | DNA Replication | Quiz | pp. 292-301 |
| September 30 | Transcription and RNA Processing | Quiz | pp. 303-313 |

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|-------------|--|------|----------------------------|
| October 5 | Translation | Quiz | pp. 313-325 |
| October 7 | Regulation of <i>Gene Expression</i> | Quiz | pp. 347-351 and 362-368 |
| October 12 | Cell-Cell Interactions | Quiz | CH 11 |
| October 14 | Second Exam | none | none |
| October 19 | No Class - Fall Break | none | none |
| October 21 | How Biological Systems Capture Energy | none | CH 10 |
| October 26 | How Biological Systems Store Energy | Quiz | CH 10 |
| October 28 | Alternative Sources and Means for Acquiring Energy | Quiz | CH 10 |
| November 2 | The Extraction of Energy from Organic Compounds | Quiz | CH 9 |
| November 4 | Conversion of Energy Into ATP | Quiz | CH 9 |
| November 9 | Third Exam | none | none |
| November 11 | Mitosis | none | CH 12 |
| November 16 | Meiosis | Quiz | CH 13 |
| November 18 | Mendelian <i>Genetics</i> | Quiz | CH 14 |
| November 23 | The Chromosomal Basis of Inheritance | Quiz | CH 15 |
| November 25 | No Class -Thanksgiving Recess | none | none |
| December 30 | Fourth Exam | none | none |
| December 2 | Population <i>Genetics</i> | none | CH 23 |
| December 6 | Human <i>Genomics</i> | Quiz | CH 20 pp. 389-393 |

Grading:

| | | |
|---------------------|-------------------------|-----|
| First Lecture Exam | September 21 | 16% |
| Second Lecture Exam | October 14 | 16% |
| Third Lecture Exam | November 9 | 16% |
| Fourth Lecture Exam | November 30 | 16% |
| Final Exam | December 13 (8:30 a.m.) | 16% |

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| | or December 14 (5:30 p.m.) | |
| Average of all Quizzes | daily minus 4 lowest | 15% |
| Biology Seminars | 2 of 3 | 5% |

Your grade will be based upon performances on the four exams, your quizzes, biology seminar participation, and the cumulative final exam. The final exam will include questions from all the course material. Attendance is expected at all lectures. **There are no make-ups for missed quizzes; make-ups for lecture exams will be granted only in extreme circumstances (to be determined by the faculty member giving the exam).** Missing a quiz or an exam will result in a zero for that assignment. Absences due to college sponsored events such as mock trial, athletics, etc. are not excused absences. The four lowest quiz scores will be dropped before calculating your average on the quizzes for your final grade. [Midterm grades and evaluation for withdrawal (passing vs. failing) will be calculated by dropping the two lowest quiz grades.] You must take regular exams with the class section in which you are enrolled. No alternative times will be scheduled for the final exam, although you may take the final exam at either one of the two scheduled period exam times.

Quizzes: Quizzes will be conducted online using WebCT. WebCT is accessible through the Rhodes home page or at <https://webct.rhodes.edu/>. Each quiz listed on the syllabus will be available shortly after the previous class. Quizzes will normally consist of 10 multiple choice questions with a 20 minute time limit. You will be able to access and take each quiz only once. You may not use notes, books, or other forms of assistance while taking the quiz. You must take the quiz no later than 30 minutes prior to the class session for which the quiz is listed on the syllabus; you will be denied access after that time. You will receive a grade of zero for missing a quiz.

Biology Seminar Series: This semester, 3 speakers will offer seminars in the Biology department seminar series. As part of your class involvement, you are required to attend 2 of these seminars. Within one week after attending the seminar, you must print, complete, and submit a [seminar worksheet](#) on the information delivered during the seminar. You will only receive credit when a worksheet is submitted by the due date. When

attending seminars please be on time, remain for the full seminar, listen respectfully to the speakers, and feel free to ask questions. Submit your completed worksheets to Mr. Charles Rand, Biology Department Assistant, in FJ102W.

Seminar Dates, Topics, and Speakers (all seminars will begin at 4:15 in Frazier-Jelke B with refreshments served at 4:00 in the Biology Library)

- September 20 - Biogenic Coatings on Rock Surfaces: Ramblings of a Chemist, Dr. Jon Russ, Department of Chemistry, Rhodes College.
- October 11 - Carpet Monsters and Killer Spores: A Natural History of Toxic Mold, Dr. Nicholas P. Money, Professor of Botany, Miami University, Oxford, Ohio.
- November 8 - Transcriptional Control of Gammaherpesvirus 68 Reactivation and Latency, Dr. Robert D. Allen, Post-doctoral Fellow, Department of Microbiology and Immunology, Yerkes National Primate Research Center, Emory University, Atlanta, GA, (Rhodes Class of 1991).

Honor Code: Conduct in this course must adhere to the Rhodes College Honor Code. This system is critical to maintaining the Rhodes Community. As such, we must all be diligent in our responsibilities under this system.

Grading Scale: Your midterm and final grade in this class will be assigned using the grading scale listed below. There is no curve in this class, and there is no opportunity to earn extra credit.

| Grading Scale for Botany Lecture | | | | |
|----------------------------------|----------|--|-------|-----------|
| Grade | Score | | Grade | Score |
| A | 100-91.5 | | C | 78.4-71.5 |
| A- | 91.4-90 | | C- | 71.4-70 |

| | | | | |
|----|-----------|--|----|--------------|
| B+ | 89.9-88.5 | | D+ | 69.9-68.5 |
| B | 88.4-81.5 | | D | 68.4-61.5 |
| B- | 81.4-80 | | D- | 61.4-60 |
| C+ | 79.9-78.5 | | F | 59.9 or less |

Access to supplemental course materials: Supplemental course materials such as lecture PowerPoint presentations and course notes are available on the campus network: Microsoft Windows Network/Rhodes/Fileserver1/Acad_Dept_Pgm/Biology/BiologyI/Public.

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