Bio 10120 - General Biology I
Chaminade University of Honolulu

ACCELERATED
Nora L. Chee

# COURSE OUTLINE ..AND SYLLABUS
## Lecture

TEXT: Audesirk, G., T. Audesirk, & B.E. Byers. 6th ed. BIOLOGY: Life on Earth, Prentice-Hall, NJ

GOALS OF COURSE:

(1) To focus on key concepts of biology, relevant to this beginning course and to other biology courses to follow.

(2) To teach about scientific inquiry.

(3) To present the biological bases for sound environmental decisions.

(4) To present a beginning survey of earth's plant/animal life.

OBJECTIVES OF COURSE:

(1) To enable a student to apply the principles of scientific inquiry to lecture/lab. exercises.

(2) To encourage a student to achieve a familiarity of scientific terms.

(3) To encourage an understanding of the interdependency of all of earth's inhabitants.

LECTURES:

(1) The student is expected to follow text assignments and topics, as given in the course outline.

(2) Exam dates will be followed unless otherwise advised.

(3) The instructor may add/omit material, if he so wishes.

GRADE DETERMINATION:

(1) Separate grades will be given for lecture and for laboratory.
(2) The final lecture exam is a comprehensive examination
(3) Grades will be tentatively computed according to the following:

| | |
|---|---|
| 1st lec. exam = 100 pts | SCALE: |
| 2nd lec. exam = 100 pts | A = 88% |
| Quizzes = 50 pts | B = 78% |
| Final Lec.Exam= 120 pts | C = 64% |
| | D = 50% |

GRADES(cont.)

(4) The lowest grade from the first or second exam will be dropped. Your final lecture grade will be based on the remaining lec exam plus quizzes and Final Exam.

(5) If Instructor is given a timely, legitimate excuse, a makeup exam is possible. No make-ups for quizzes missed.

(6) There will be periodic quizzes on latest material covered.

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# LABORATORY COURSE SYLLABUS

Text: Laboratory Handouts will be provided for all exercises ahead of time.

## AIMS OF LABORATORY:

(1) Selected exercises to demonstrate certain key principles/ concepts, such as osmosis, genetics, etc.

(2) Use of appropriate investigative lab tools and techniques.

(3) Applications of the basics of scientific inquiry in problem solving exercises.

## STUDENT OBJECTIVES:

(1) Gain an understanding of basic principles and concepts of biology.

(2) Be able todemonstrate with confidence the proper use of basic laboratory tools and techniques.

## LAB PREPARATION:

Students are expected to have read and prepared ahead of time for lab assignments. Handouts will be given ahead of time.

## GRADE DETERMINATION:

(1) There is a separate lab grade earned.

(2) The scale used to determine your final lab score is the same as that given for the lecture.

(3) See Lecture Syllabus for policy on missed quizzes, exams.

(4) The final lab grade is determined as follows:

| | | |
|---|---|---|
| Lab Reports | 100 pts.ea. | GRADING SCALE: |
| Quizzes | 30 pts. | A = 88% |
| Lab Final | 120 pts. | B = 78% |
| | | C = 64% |
| | | D = 50% |

Chaminade University
Schofield
Instructor N. Chee

SPRING EVENING 2002
(Apr 1 - June 10)

| WK | | | | |
|---|---|---|---|---|
| 1 | M | 4/1 | Ch. 1 - Introduction<br>Ch. 2 - Atoms | 1-16<br>21-32 |
| | W | 4/3 | Ch. 3 - Biol. Molecules<br>Ch. 4 - Cell I<br>QUIZ #1 | 37-53<br>57-72 |
| 2 | M | 4/8 | Ch. 5 - Cell II<br>Ch. 6 - Energy Flow | 75-94<br>99-104 |
| | W | 4/10 | Ch. 7 - Photosynthesis<br>QUIZ #2 | 115-126 |
| 3 | M | 4/15 | Ch. 8 - Glycolysis, Respiration | 131-144 |
| | W | 4/17 | OFF - | |
| | Sat | 4/20 | SATURDAY LAB #1 on Biological Molecules<br>Handouts | Meet at CUH<br>Henry Hall Rm.8<br>9:30 - 12 noon |
| 4 | M | 4/22 | Ch. 9 - DNA & Beg. Chap. 10<br>QUIZ #3 | 149-159 |
| | W | 4/24 | LECTURE EXAM #1 - Ch. 1 thru 9 | |
| 5 | M | 4/29 | Ch. 10 - Gene Expression | 163-181 |
| | W | 5/1 | Ch. 11 - Cell Reproduction<br>QUIZ #4 | 185-205 |
| 6 | M | 5/6 | Ch. 12 - Patterns of Inheritance | 211-235 |
| | W | 5/8 | WEDNESDAY LAB #2 in Patterns of Inheritance<br>Handouts Report due Monday | At Schofield<br>5:30 - |
| 7 | M | 5/13 | Ch. 13 - Biotechnology | 243-264 |
| | W | 5/15 | OFF | |
| | Sat | 5/18 | SATURDAY LAB #3 - Osmosis<br>Handouts Report due Monday | Meet at CUH<br>Henry Hall Rm.8<br>9:30 - 12 noon |

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|---|---|---|---|---|
| 8 | M | 5/20 | Ch. 14 - Evolution | 269-283 |
| | W | 5/22 | LECTURE EXAM #2 - Ch. 9-14 | |
| 9 | M | 5/27 | HOLIDAY - no class | |
| | W | 5/29 | LAB EXAM - everything covered in labs so far | |
| 10 | M | 6/3 | Ch. 15 - How Organisms Evolved | 287-302 |
| | | | Ch. 16 - Origin of Species | 307-318 |
| | W | 6/5 | Ch.17 - History of Life on Earth | 323-346 |
| 11 | M | 6/10 | FINAL EXAM - Everything covered in lecture | |