Prof SE99

Bio 102 20 | BE 102L20 General Biology Ii — Spring Accelerated
Chaminade Univ. — Nora L. Chee

LECTURE COURSE OUTLINE & SYLLABUS

TEXT: Audesirk, Gerald and Teresa . 1996 (or new). BIOLOGY: LIFE ON EARTH. Prentice Hall, Inc.

GOALS OF COURSE:

1. To focus on key concepts of biology, relevent 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, with an introduction to Hawaiian flora and fauna.

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 terminology.

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 the laboratory.

2. The final lecture exam is a comprehensive examination.

3. Grades will be computed according to the following scale:

1st lee exam = 100 pts.	SCALE:
2nd lee exam = 100 pts.	A = 90%
Quizzes = 50 pts.	B = 80%
Final exam = 150 pts.	C = 70%
	D = 60%

3(cont.)

a. The lowest grade from the first exam and second exam will be dropped. Your final lecture score will be based on the remaining scores and the final lecture exam.

b. Given a timely, legitimate excuse, a make-up quiz or exam possible.

c. There will usually be a quiz at each Wednesday meeting, on relevant material covered in the previous lecture.

Rio 102 General Biology II — KANEOHE ASSIGNMENTS
Chaminade University — Lecture/Laboratory

Week	Date	NEW	TOPIC	Assignment
1	4/5/99	15	Ch.17: How Organisms Evolve	322-361
		16	Ch.18: Origin of Species	
	NOTE: Read Ch.19 (new Ch.17) for your own info.			
	4/7	18	Ch. 20: Taxonomy	385-395
			LAB #1 - Exercise of Canimalcules (Immediately following lecture)	Handout
	NO LAB ON SATURDAY, 4/10			
2	4/12	19	Ch. 21: Microbes	398-420
		20	Ch.22: Fungi	424-436
	4/14	21	Ch. 23: Plant Kingdom	438-454 LEC QUIZ #1
	4/17		LAB #2 - Field trip Lyons Arboretum	Handouts
3	4/19	23	Ch. 25: Structure: Land Plants	496-515
		23	Ch. 26: How Acquire/Transport	519-531
	4121		LECTURE EXAM #1	
	4/24		LAB #3 - Structure Root/shoot (Meet at haminade Henry Hall 8)	Handout LAB QUIZ #1
4	4/26	24	Ch. 27: Plant Reprod./Develop.	534-552
		25	Ch. 28: Response Environment	556-569
	4/28	22	Ch, 24: ANIMAL KINGDOM	458-491
		26	Ch. 29: Animal Anatomy	571-582 LEC QUIZ #2
	5/1		LAB #4 - field trip to Kewalo Lab (w/Dr. Mike Hadfield)	Handout
5	5/3	27	Ch. 30: Circulation	584-601
	5/5	28	Ch.31: Respiration	604-615 LEC QUIZ #3
	5/8		LAB MIDTERM EXAM (at Chaminade)	
6	5/10	29	Ch. 32: Digestion/Nutrition	618-635
	5/12		LECTURE EXAM #2	
	5/15	NO LAB -Holiday		

Week	Date	NEW	TOPIC	Assignment
7	5/17	30	Ch. 33: Urinary/Homeostasis	638-548
	5/19	31	Ch. 34: Immune System	650-675 LEC QUIZ #4
	5/22		LAB #6 - Dissection fetal pig (at Chaminade Univ.)	HANDOUT LAB QUIZ #2
8	5/24	32	Ch. 35: Endocrine System	678-694
	5/26	33	Ch. 36: Nervous System Ch. 37: Senses	696-722 726-742 LEC QUIZ #5
	5/29		LAB #7 - Sheep Brain dissection Sense Organs	HANDOUTS LAB QUIZ #3
9	5/31		HOLIDAY - no lecture	
	6/2	34 35	Ch. 38: Muscles/Skeleton Ch.39: Reproduction	746-759 762-785
	6/5		LAB #8 - field trip Coconut Island Labs.	
10	6/7	36 37	Ch. 40: Development Ch. 41/42: Behavior	788-806 809-843
	6/9	38	Ch. 43: Ecology	847-867
		39-41	Ch. 44-46 (if time permits)	
	6/12		LAB FINAL (at Chaminade Univ.)	
11	6/14		LECTURE FINAL	

Bio 102 - General Biology II LABORATORY Spring accelerated '99
Chaminade University Nora L. Chee, Instructor

LABORATORY COURSE SYLLABUS

Text: No text for laboratory. Handouts will be provided for all exercises.

AIMS OF LABORATORY:

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

2. Use of appropriate investigative lab tools and techniques, such as microscopy, pipetting, etc.

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

4. Provide in-field observations of natural habitats of locally found species of plants/animals, including endemic forms, if at all possible and available.

STUDENT OBJECTIVES:

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

2. Be able to demonstrate with confidence the proper use of basic laboratory tools and techniques.

3. To put into practice, conservation observations relating to our natural wildlife.

LAB PREPARATIONS:

Students are expected to have read and prepared ahead of time for lab assignments (as scheduled on Syllabus Handout).

GRADE DETERMINATION:

separate lab grade is earned.

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

3. See Lec Syllabus for policy on missed quizzes, exams.

4. A final lab grade is determined as follows:

Midterm lab exam = 100 pts.	A = 907
Quizzes = 30 pts.	B = 807
Lab report = 100 pts.	C = 707
	D = 607