Summer I, 2012

BIOLOGY 101 General Biology I

Mondays, Wednesdays, and Fridays 9:40 am-12:50 pm
Clarence T.C. Ching Hall, Room 251

Professor: Dr. Richard Alvey
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Personal Number 814-422-5839 (Personal number, 2nd best way to reach me)
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Office Hours: Thursdays 1:30pm to 2:30pm or by appointment

As mentioned above, e-mail is the best way to reach me. I prefer to get e-mails from your chaminade.edu account. E-mail messages from other accounts regarding things like "What was the answer to number 7?" are OK, but I will not provide any personal grade information to any non-chaminade.edu e-mail accounts as I am unable to verify the identity of persons using other email accounts.

Textbook: Audesirk "Biology: Life on Earth with Physiology," 9th Edition (Not required)

Course Website: http://goo.gl/izRa4

Course Overview:
Covers basic biological principles, anatomy and physiology of bacteria, plants and animals, human ecological concerns and genetic engineering.

Course Goals:
1. To present basic concepts and principles of biology.
2. To help the student on their road to becoming a competent and educated professional.
3. To study the organisms included in the botanical and zoological fields emphasizing Hawaiian flora and fauna.

Objectives for Students: At the completion of the course you, the student, will be able to do the following:

- ✓ Identify biological structures, such as organs, and understand their anatomy and physiology.
- ✓ Identify representative flora and fauna, especially of Hawaii.
- ✓ Understand how organ systems are related to each other and cellular-level processes.
- ✓ Understand ecological relationships between organisms and environment.

Lectures:
1. Class time is 3 hours and 10 minutes in duration, three times weekly for 7 weeks. Class will likely be broken up into 2 segments of 1 hour and 25 minutes with a 20 minute break in between. Lectures are accompanied by two laboratory periods of 3 hours and 10 minutes per week.
2. Text assignments and lecture topics are listed in the course outline. Consult the outline for exam dates and holidays.
3. Supplemental readings may be assigned during the course of the semester.
4. Adjustments may be made to the lecture outline, such as changes in exam dates, or assignments.

Grade Determination:

- Separate grades will be given for lecture and laboratory.

- Daily quizzes will be given during the semester. Your quiz scores will be averaged together and will be equivalent to one exam.

- The lecture grade will be determined in the following manner:

1st lecture exam	100 points	A ≥90%
2nd lecture exam	100 points	B = 80-89%
3rd lecture exam	100 points	C = 70-79%
Daily Quizzes	100 points	D = 60-69%
		F = ≤59.9%
Total Possible	400 points	

Note: Any exam that the student fails to complete at the expected time can be made up only with a valid reason to be determined by the instructor. The exam may be different from the exam taken by the other students.

Class Policies:

- Attendance is ***mandatory*** for each lecture and laboratory. Attendance will be monitored. Attendance for laboratory is especially important and unexcused absences for both lecture and laboratory will result in *grade penalties* to be determined by the instructor.

- Quizzes missed cannot be made up.

- All excused absences will require a paper-based (either typed or hand-written, not email) request for excused absence. The note must include an explanation of the reason for not being in class, the date or dates of the absences, an acknowledgment of the material missed, and a signature by the student. Supporting materials such as a doctor's note may be included as supporting evidence but the personal note acknowledging the missed material is still required. Excused absences will be noted in the grade book and quizzes given

that day will not be counted for or against the student. Missed exams will have to be made up.

- Students with special needs who meet criteria for the Americans with Disabilities Act (ADA) provisions must provide written documentation of the need for accommodations from the CUH Counseling Center (Dr. June Yasuhara; phone 735-4845) by the end of week three of the class, in order for the instructor to plan accordingly. Failure to provide written documentation will prevent your instructor from making the necessary accommodations. Please refer any questions to the Dean of Students and review the procedures at **http://www.chaminade.edu/student_life/sss/counseling_services.php**.

- Academic dishonesty including cheating, plagiarism, and other serious offenses will not be tolerated. Appropriate action will be taken.

- Electronic devices: The use of cellular phones/text messaging is prohibited while in class. Laptops may be used to take notes but are not to be used for other purposes such as web browsing, text messaging, or working on anything else not related to class. This is a university-wide policy and the use of such devices during lecture time is disrespectful to the lecturer and neighboring students.

Summer I, 2012

BIOLOGY 101L General Biology Lab I

Tuesdays and Thursdays 9:40 am-12:50 pm
Henry Hall Room L3

You will need to buy a lab coat for Bio 101L. These can be obtained from Heidi Harakuni in Wesselkamper Science Center room 115.

You will be given a **separate** grade for lab and lecture.
Your grade for Bio 101L will be determined as follows:

Exam #1 25%
Exam #2 25%
Lab team assignments: 50%

Lab Team Assignments:
Lab exercises will be conducted in randomly assigned teams of 4 students. Assignments will consist of putting together a powerpoint presentations of the topic of the day and the grades will be determined by a student voting system. Voting will be done by e-mail from your chaminade.edu email account.

For each lab exercise, your team will create a powerpoint presentation that clearly and creatively:

1. Gives background information on the topic
2. Accurately explains how you performed the lab exercise
3. Describes the results of your efforts using pictures and text

You are encouraged to use a lot of photographs and information from outside sources (Gogle, Wikipedia, etc.).

Grading lab team assignments:
Out of an anticipated 6 groups there will be 1 first place winner, 2 second place winners, 2 third place winners and 1 last place winner. Teams will be assigned randomly for each lab session. The presentation for each team will be made available on the website (http://goo.gl/izRa4) and students will be required to view all 6 powerpoint presentations and individually vote on which one they determine is the best. Students may not vote for their own team!

Grades for the teams will be distributed as follows:

1st place	95%
2nd place	90%
3rd place	85%
4th place	80%

Additional extra points will be distributed to individual students based on how they voted. Students voting for the 1st place group will get an additional 10% added to their score. Students voting for either of the two 2nd place groups will have an additional 5% added to their score. Students that do not vote will have 10% subtracted from their score. Using this system, it is possible for all students to get an A (at least 90%).

Students who are absent with a valid excuse note (see above for details on the note) will receive a 65% for their grade. This grade can also be raised or lowered based on voting: An additional 10% will be added for a 1st place vote, an additional 5% for a second place vote and 10 % will be subtracted if no vote is placed. This means that if you miss a lab session the possible grades you can get are 75% (with a correct vote for the 1st place powerpoint), 70% (with a 2nd place vote), 65% (with a vote for the 3rd or 4th place team), 55% (with no vote), or 0% (with no excused absence note).

As instructor for this course I reserve the right to pick the best presentation over what the popular vote determines. I do not expect to have to exercise this privilege but retain this right to keep any possible vote rigging from occurring and to make sure that presentations win for the right reasons. I don't want presentations winning based only on the use of rainbows and puppy dogs.

Lastly, please remember that these team powerpoint presentations are in place of traditional lab notebooks. This is an opportunity for you to collaborate and be creative in showing off what you have learned. Have fun with it!

Lab Exams:
There will be two lab exams. The second exam will not be cumulative and will be limited to the material covered since the first exam. I anticipate borrowing heavily from your team powerpoint files to create the exams and recommend that you use them to study.

BIOLOGY 101 General Biology I

Summer I, 2012 **Course Outline**

Week	Class/Lab	Date	Lecture topic	Chapter	Lab Activities
1	1	5/21/12	Elements of life, Molecules of life, DNA	2,3,11	
	1	5/22/12			DNA Introduction
	2	5/23/12	Origins of life, Evolution, Microbiology	17,19,20	
	2	5/24/12			Microbiology Introduction
	3	5/25/12	Plants: Anatomy and Reproduction	43,44	
2	**********	5/28/12	No Class	**********	
	3	5/29/12			Plant Anatomy
	4	5/30/12	Diversity of Plants	21	
	4	5/31/12			Foster Gardens
	5	6/1/12	Behavior and Ecology	25-30	
4	6	6/4/12	**Exam #1**		
	5	6/5/12			Kaloko Cove
	7	6/6/12	Animal Diversity I: Invertebrates	23	
	6	6/7/12			Lab Exam #1
	8	6/8/12	Animal Diversity II: Invertebrates/Vertebrates	23,24	
5	**********	6/11/12	No Class	**********	
	7	6/12/12			Worm/Clam/Starfish Dissection
	9	6/13/12	Animal Diversity III: Vertebrates	24	
	8	6/14/12			Aquarium
	10	6/15/12	Anatomy/Physiology: Organization of the body	31	
6	11	6/18/12	**Exam #2**		
	9	6/19/12			Pig Dissection
	12	6/20/12	Circulation/Respiration	32,33	
	10	6/21/12			Zoo Visit
	13	6/22/12	Nutrition and Digestion	34	
7	14	6/25/12	Defense against disease	36	
	11	6/26/12			Self assessment experiments
	15	6/27/12	Endocrine system/Nervous system/Senses	37,38	
	12	6/28/12			Final Exam
	16	6/29/12	Final Exam		