

**BIOLOGY 101 General Biology I**  
Mondays, Wednesdays, and Fridays 1:30 pm - 2:20 pm  
Wesselkamper Science Ctr, Room 120

Professor: Dr. Richard Alvey

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Office: Henry Hall, Room 123C

Office Hours: Tuesdays 1:30 pm to 2:30 pm or by appointment

As mentioned above, e-mail is the best way to reach me. Please be sure to use your **chaminade.edu** account for all messages you send to me. I am unable to verify the identity of persons using other email accounts.

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

Course Website: <http://goo.gl/ImeeU>



**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 environments.

**Lectures:**

1. Class time is 50 minutes in duration, three times weekly for 16 weeks. Lectures are accompanied by one laboratory period of 2 hours and 50 minutes per week.
2. Lecture topics are listed in the course outline. Consult the outline for exam dates and holidays.
3. Adjustments may be made to the lecture outline, such as changes in exam dates, or assignments.

**Quizzes:**

- Daily, 10-question quizzes will be given during the semester. Your quiz scores will be averaged together and will be equivalent to one exam.
- Quizzes can only help your grade! If your quiz grade is lower than your exam average I will adjust your quiz average to equal your exam average.
- Quiz 2<sup>nd</sup> chances: For all quizzes I offer you a 2<sup>nd</sup> chance to get the right answer. If you take the quiz and are unable to answer a question or find out later that you have put down an incorrect answer, you can email me the question number and the correct answer to get half credit for that question. In order to get the half credit your answers must be correct and you must email them to me before midnight on the same day the quiz is given.
- In the past, many students have found it useful to take a photograph of the quiz questions and sometimes their answers to review later and help with the 2<sup>nd</sup> chance option.
- Make-up quizzes will not be given. If you provide me with a paper-based, self-written excuse note (see policy below) I will not count missed quizzes in your quiz average, otherwise you will receive a zero for the missed quiz.

**Grade Determination:**

- Separate grades will be given for lecture and laboratory.
- The lecture grade will be determined in the following manner:

1 <sup>st</sup> lecture exam	100 points	
2 <sup>nd</sup> lecture exam	100 points	A ≥90%
3 <sup>rd</sup> lecture exam	100 points	B = 80-89%
Cumulative Final Exam	100 points	C = 70-79%
Daily Quizzes	100 points	D = 60-69%
<hr/>		F = ≤59.9%
Total Possible	500 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.
- Missed quizzes 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. 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](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.

**BIOLOGY 101 General Biology I**  
**Fall, 2012 Course Outline**

Week	Class/Lab	Date	Lecture topic	Chapter	Lab Activities
1	1	8/27/12	Elements of life, Molecules of life, DNA		Introduction
	2	8/29/12	DNA continued, Origins of life, Evolution		
	3	8/31/12	Origin of species		
2	***** 9/3/12 No Class *****				
	4	9/5/12	Origins of life continued, Diversity of Prokaryotes and Viruses		
	5	9/7/12	Microbiology continued, vaccines		
4	6	9/10/12	Eukaryotes: Protists		DNA
	7	9/12/12	Plants: Anatomy and Reproduction		
	8	9/14/12	Diversity of Plants		
5	9	9/17/12	Diversity of plants continued		Microbiology
	10	9/19/12	Biotechnology and Fungi		
	11	9/21/12	<b>Review</b>		
6	12	9/24/12	<b>Exam #1</b>		Plant Anatomy & evolution
	13	9/26/12	Community Interactions		
	14	9/28/12	Behavior and Ecology		
7	15	10/1/12	Ecology I: How do ecosystems work?		Foster Gardens
	16	10/3/12	Ecology II: Earth's diverse ecosystems		
	17	10/5/12	Ecology III: Conserving biodiversity		
8	*****10/8/12 No class*****				
	18	10/10/12	Anatomy/Physiology: Homeostasis and the organization of the body		
	19	10/12/12	Animal Diversity I: Invertebrates		
9	20	10/15/12	Animal Diversity II: Invertebrates/Vertebrates		Kaloko Cove
	21	10/17/12	Animal Diversity III: Vertebrates		

	22	10/19/12	Circulation		
10	23	10/22/12	Circulation/Respiration		Exam #1
	24	10/24/12	Respiration		
	25	10/26/12	<b>Review</b>		
11	26	10/29/12	<b>Exam #2</b>		Invertebrate Dissections
	27	10/31/12	Nutrition and Digestion		
	28	11/2/12	Defense against disease		
12	29	11/5/12	Endocrine system		Aquarium
	30	11/7/12	Nervous system		
	31	11/9/12	Senses		
13	***** 11/12/12 No Class *****				
	32	11/14/12	TBD		
	33	11/16/12	TBD		
14	34	11/19/12	TBD		Pig Dissection
	35	11/21/12	TBD		
	***** 11/23/12 No Class *****				
15	36	11/26/12	<b>Review</b>		Zoo
	37	11/28/12	<b>Exam #3</b>		
	38	11/30/12	TBD		
16	39	12/3/12	TBD		<b>Lab Final Exam</b>
	40	12/5/12	TBD		
	41	12/7/12	TBD		
	<b>Tuesday 12/11/12</b>	<b>Final Exam</b>			

**BIOLOGY 101L General Biology Lab I**  
Mondays 2:30 pm-5:20 pm  
Henry Hall Room L4  
Office Hours Thursdays 2:30 pm - 3:30 pm

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 about 4 students. Assignments will consist of putting together 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 take a lot of photographs and include them in your powerpoints. You are also encouraged to use information from outside sources (Google, Wikipedia, etc.). Try to limit the photographs used in your presentations to ones that you have taken yourself but if you do include photographs from the internet please be sure to cite the sources.

**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/ImeeU>) 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!

You should use the follow criteria when evaluating the presentations:

- **Completeness:** Did the presentation address all aspects of the assignment?
- **Correctness:** Was the information presented accurate and correct based on what your team found?
- **Neatness:** Was the information provided in an organized, readable manner?
- **Creativeness:** Was the information presented in a manner that you found interesting or unique?
- **Helpfulness:** Was the presentation helpful in conveying the information or explaining it to you?

Grades for the teams will be distributed as follows:

1 <sup>st</sup> place	95%
2 <sup>nd</sup> place	90%
3 <sup>rd</sup> place	85%
4 <sup>th</sup> place	80%

Additional extra points will be distributed to individual students based on how they voted. Students voting for the 1<sup>st</sup> place team will get an additional 10% added to their score. Students voting for either of the two 2<sup>nd</sup> place teams will have an additional 5% added to their score. Students that do not vote or vote for their own team 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 1<sup>st</sup> 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 1<sup>st</sup> place powerpoint), 70% (with a 2<sup>nd</sup> place vote), 65% (with a vote for the 3<sup>rd</sup> or 4<sup>th</sup> 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.

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Fall, 2012 Course Outline

<b>Week</b>	<b>Date</b>	<b>Topic</b>
1	8/27/12	Introduction, Safety
2	9/3/12	NO Meeting
3	9/10/12	DNA
4	9/17/12	Microbiology
5	9/24/12	Plant Anatomy/Evolution
6	10/1/12	Foster Gardens
7	10/8/12	NO Meeting
8	10/15/12	Kaloko Cove
9	10/22/12	Exam #1
10	10/29/12	Invertebrate Dissections
11	11/5/12	Aquarium
12	11/12/12	NO Meeting
13	11/19/12	Pig Dissection
14	11/26/12	Zoo Visit
15	12/3/12	Final Exam