CHAMINADE UNIVERSITY ONLINE LEARNING BI 101L General Biology Laboratory (Non-Major)

COURSE SYLLABUS Winter Evening Term 2015

Chaminade University Mission Statement – Biology

The mission of the biological science programs at Chaminade University of Honolulu includes recognition of its Catholic / Marianist tradition and addresses the five principles that make Chaminade unique in its curriculum. Those principles are providing a quality of education; educating for formation in faith; in maintaining family spirit; working towards service, peace, and justice; and preparing students for adaptation and change. The biology curriculum has successfully offered a broad based, quality education for years. This has resulted in our graduates successfully applying to graduate and professional schools, as well as employment in a community. Faith is involved in many educational pursuits and biology works unceasingly towards improving the human condition and society in which we live. The laboratory environment of the program encourages and fosters a family spirit amongst biology students and faculty. Additionally, many students and faculty offer their talents and skills in community service projects and voluntary experiences at health or scientific institutions. The very nature of science (including the cornerstone of the scientific method) encompasses adaptation and change, which are fundamental components of a scientific and biological education.

INSTRUCTOR INFORMATION:

INSTRUCTOR INFORMATION: Dr. Louis Primavera (call me "Louie" or "Dr. Lou") Cell Phone: (808) 489-1204 Email: louis.primavera@adjunct.chaminade.edu Students: Please include course section and your name in any emails or voicemails sent to the instructor. INSTRUCTOR EDUCATION: BS Biology MA and PhD in Microbiology

NOTE: For course syllabi posted prior to the beginning of the term, the instructor reserves the right to make changes prior to or during the term. The instructor will notify students, via e-mail or eCollege announcement, when changes are made in the requirements and/or grading of the course.

BI 101L is an online biology laboratory that utilizes virtual laboratory modules to mimic an in-class biology laboratory. The virtual laboratory experiments will be completed on your computer, and will attempt to demonstrate biological processes and help students understand concepts taught in the classroom.

I am always available via cell phone or e-mail You can contact me 24/7 via cell phone. If I am unavailable, please leave a message. I will respond to all student email messages within 24 hours.

COREQUISITES:

Biology Lecture. Students must register for both the lecture (BI 101) and laboratory (BI 101L) concurrently (Please note: If a student has previously passed the lecture or laboratory, then a student may be allowed to register for only the lecture or laboratory). If a student drops the lecture (BI 101), then the student MUST also drop the laboratory (BI 101L).

ENTRANCE COMPETENCIES:

The student must possess the knowledge and skills of a high school graduate and the capability to perform on a college level.

HOW TO ENTER THE PEARSON LABORATORY WEBSITE:

The Chaminade IT department will enroll students into our eCollege course (which is the same process that we had for Fall 2014 courses), but rather than directly billing students prior to the start of class, students will need to choose from one of the following options:

1. Direct online purchase to Pearson's premium content via credit card or PayPal for \$80. Please click on the "eText" link on the left side of the lecture website for additional details and the purchase page.

2. Purchase of access code via campus bookstore. Please note that the cost of access codes purchased via the campus bookstore will be subject to bookstore mark-up. 3. Select 21-day temporary access without payment so students will be able to access all of their Pearson course materials on the first day of class. At the end of their 21-day temporary access, students will need to complete their purchase online or by access code to continue accessing their materials for the duration of the term. (link is forthcoming)

STUDENT EXPECTATION STATEMENT:

This is not a correspondence course. You are required to perform your work following the schedule provided by the instructor. Students will be given weekly assignments to minimize the chance of students falling behind in this laboratory class. Therefore, in addition to your virtual laboratory experiments, students will have to complete weekly laboratory reports or laboratory exams as outlined in the schedule.

- 1. Students must complete the assigned virtual laboratory experiments and submit all work on or before the weekly deadline.
- 2. Each week students will have to submit a laboratory report or take the virtual laboratory module assessments (pre and post) as posted in the course schedule below. Laboratory reports will be worth 25 points each. The instructor will provide a sample laboratory report and directions for student laboratory reports at the start of the semester. At the end of the semester, students will have to complete a "take-home" laboratory exam (the exam will be worth 100 points).

Therefore, students must login several times per week to stay caught up in the course.

3. All exams and assignments will be due on time as posted (unless other arrangements are made with the professor). The exams and assignments are posted several days before the due date. Do not wait until the last second, and risk missing the deadline (computers always seem to crash 5 minutes before the deadline).

CATALOG DESCRIPTION:

BI 101L is an overview of biology that includes scientific methods, biological chemistry, cell biology, biological energy transformations, physiology, genetics, gene expression and regulation, population genetics, and ecology. Collected Program Learning Outcomes – Biology

Upon completion of the B.A. or B.S. Degree program in the Biological Sciences, the student will demonstrate an understanding of the following:

- 1. The scientific method and its application in the Biological sciences.
- 2. Living organisms and their relationship to each other and the environment.
- 3. Theoretical and practical experiences in Biology.
- 4. Opportunities available in the Biology Discipline.

MORE SPECIFIC LABORATORY COURSE OBJECTIVES:

After completing this course, the student will be able to:

- 1. Understand and make conversions using the metric system.
- 2. Understand the scientific method.
- 3. Understand the importance of microscopes as a biological tool; know the parts of a microscope and how they function
- 4. Understand the pH scale and demonstrate a basic understanding of acids/bases.
- 5. Understand the process of diffusion and osmosis.
- 6. Understand the importance of enzymes and how they work.
- 7. Demonstrate a basic understanding of photosynthesis.
- 8. Demonstrate a basic understanding of respiration.
- 9. Demonstrate a basic understanding of homeostasis (including anatomy and physiology of the heart and lungs)
- 10. Demonstrate a basic understanding of the concepts of genetics, and patterns of inheritance.
- 11. Demonstrate an understanding of the process of evolution and natural selection.
- 12. Demonstrate an understanding of principles of ecology.

TEXTBOOK AND OTHER MATERIALS NEEDED:

In addition to purchasing the textbook for the course (see lecture syllabus for textbook information) you will need an ACCESS CODE for the computer based virtual laboratory experiments.

Your tuition should include a laboratory fee for this course. Once you have your access code, you will register your code and gain access to the virtual laboratory by following the directions posted in the BIOL class shell.

RESEARCH COMPONENT:

Laboratory reports may require brief Internet research.

DISTANCE LEARNING COURSES AT CHAMINADE UNIVERSITY:

In every Distance Learning course, students should read all information presented in the course site and should periodically check for updates—at least every 48 hours.

CHAMINADE EMAIL:

All Students

 All students are responsible for ensuring that the correct email address is listed by the beginning of Week #1. Email is the only way the instructor can, at least initially, communicate with you. It is your responsibility to make sure a valid email address is provided. <u>Failure on your part to do so can result in your missing</u> important information that could affect your grade.

Students are responsible for the information that is sent to their CHAMINADE account.

COURSE REQUIREMENTS:

- Upon Enrollment: check email address!!
- Virtual laboratory modules
- Laboratory reports
- Laboratory Module assessment (pre and post)
- Final examination

STUDENT/FACULTY INTERACTION:

- Interaction will take place via E-Mail, Telephone, or Office Visits (if needed or possible).
- The student will participate in this course by following the guidelines of this syllabus and any additional information provided by the instructor, or Chaminade University.
- The student is expected to remain in regular contact with the instructor and class via email or other communications means, by participating in the discussion forums, submitting assignments and taking exams, all in a timely fashion.

• As instructor, I will communicate on the Announcement page and/ or via e-mail.

MAKE-UP WORK POLICY:

Missing any part of the schedule (see below) may prevent completion of the course. If you foresee difficulty of any type (i.e., an illness, employment change, etc.) which may prevent completion of this course, notify the instructor as soon as possible. Failure to do so will result in failure for an assignment and/or failure of the course.

If I have not heard from you by the deadline dates for assignments, exams, or forums, NO MAKE-UP WORK WILL BE ALLOWED (unless extraordinary circumstances existed, such as hospitalization). Requests for extensions must be made in advance and accompanied by appropriate written documentation if the excuse is acceptable to the instructor. "Computer problems" are not an acceptable excuse.

METHOD OF INSTRUCTION:

This is a distance learning class. It is <u>not</u> a "correspondence course" in which students may work at his or her own pace. Each week there will be assignments, on-line discussions, and/or exams with due dates. Refer to the schedule at the end of this syllabus for more information.

METHOD OF EVALUATION:

Laboratory module assessments	60 pts (10 pts for each pair \rightarrow pre and post)	
Final laboratory exam (comprehensive "take-home")	100 pts	
Laboratory reports	100 pts (4 reports at 25 pts each)	
Total	260 pts	

ASSIGNMENT OF GRADES:

All grades will be assigned according to the following or similar scale:

- A 90 100%
- B 80 89%
- C 70 79%
- D 60 69%
- F 59% and below

SUBMITTING ASSIGNMENTS:

- No e-mail attachments will be accepted, due to the risk of viruses. Please copy/paste the text into the body of the e-mail message.
- Laboratory reports and laboratory assessments are expected to be submitted on or before posted due dates.

TECHNOLOGY REQUIREMENTS:

Students must have:

- A Chaminade e-mail account that you can access on a regular basis
- E-mail software capable of sending and receiving attached files.
- Access to the Internet with a 56.9 kb modem or better.
- A personal computer capable of running Netscape Navigator 7.0 or above, Internet Explorer 6.0 or above, or current versions of Firefox or Mozilla. Students who use older browser versions will have compatibility problems with Blackboard.
- Microsoft WORD software. (I can not grade assigments that I am unable to open. This means NO MS-Works, NO Wordpad, NO Wordperfect)
- Virus protection software, installed and active, to prevent the spread of viruses via the Internet and email. It should be continually updated!

Internet Access:

- This is an on-line class. Students must have access to a working computer and access to the internet.
- "Not having a computer" or "computer crashes" are not acceptable excuses for late work.

NON-HARASSMENT, HOSTILE WORK/CLASS ENVIRONMENT:

Chaminade University expects students to treat fellow students, their instructors, other faculty, and staff as adults and with respect. No form of "hostile environment" or "harassment" will be tolerated by any student or employee.

AMERICANS WITH DISABILITY ACT (ADA):

Chaminade University supports Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, which insure that postsecondary students with disabilities have equal access to all academic programs, physical access to all buildings, facilities and events, and are not discriminated against on the basis of disability. Eligible students, with appropriate documentation, will be provided equal opportunity to demonstrate their academic skills and potential through the provision of academic adaptations and reasonable accommodations.

HONESTY AND PLAGIARISM:

The awarding of a university degree attests that an individual has demonstrated mastery of a significant body of knowledge and skills of substantive value to society. Any type of dishonesty in securing those credentials therefore invites serious sanctions, up to and including suspension and expulsion. Examples of dishonesty include actual or attempted cheating, plagiarism*, or knowingly furnishing false information to any university employee.

*Plagiarism is defined as submitting anything for credit in one course that has already been submitted for credit in another course, or copying any part of someone else's intellectual work – their ideas and/or words – published or unpublished, including that of

other students, and portraying it as one's own. Proper quoting, using strict APA formatting, is required, as described by the instructor.

- Students must properly <u>cite any quoted material</u>. No term paper, business plan, term project, case analysis, or assignment may have <u>no more than 20% of its</u> content quoted from another source.
- This university employs plagiarism-detection software, through which *all* written student assignments are processed for comparison with material published in traditional sources (books, journals, magazines), on the internet (to include essays for sale), and papers turned in by students in the same *and* other classes in this *and all previous terms*. The penalty for plagiarism may range from zero credit on the assignment, to zero in the course, to expulsion from the university with appropriate notation in the student's permanent file.

HOW TO SUCCEED IN AN ONLINE COURSE:

Chaminade University eCollege is designed to serve any student, anywhere in the world, who has access to the Internet. All Distance Learning courses are delivered through the *eCollege* Learning System.

In order to be successful, you should be organized and well motivated. You should make sure you log in to our course on *eCollege* several times each week. Check all "announcements" that have been posted. Start early in the week to complete the weekly assignment. You should also go to the Discussion Board early in the week and view the topic and question/s for the group discussion exercise. Make your "initial" posting and participate in the discussion. Prepare and study early in the week. Do not wait until the last minute and "cram" for the exams or hastily write your laboratory reports. Please feel free to print up the laboratory modules so that they may be utilized as study guides for the final examination (which will be of a "take-home" nature)

BI 101L COURSE SCHEDULE

Week	Laboratory Module	Assignment	Due Date
1	Orientation to the Laboratory and Scientific Principles	Pre-assessment and Post-assessment	1/25/15
2	Cell Division	Pre-assessment and Post-assessment	2/1/15
3	Microscopy and Cell Structure	Pre-assessment and Post-assessment	2/8/15
4	Diffusion and Osmosis	Pre-assessment and post assessment	2/15/15
5	Enzymes	Laboratory report	2/22/15
6	Deriving Energy from Food	Laboratory report	3/1/15

7	Photosynthesis	Laboratory report	3/8/15
8	Heredity	Pre-assessment and Post-assessment	3/15/15
9	Animal Behavior	Laboratory report	3/22/15
10	Foraging Strategy	Pre-assessment and Post-assessment	3/28/15

The Take-Home Final Examination will be due on 3/28/15.