

Fall 2017 Syllabus

Course Code: BI-215-02-1



I. Instructor Information

Dr. Frederique Kandel
frederique.kandel@chaminade.edu
Office phone: (808) 739-8376
Office: Henry 123B
Office hours: W: 1:30pm-5:30pm, F: 10-11am or by appointment

II. Course Information

M-W-F
11:30AM - 12:20AM,
WESSELKAMPER 120

III. Text: ISBN: 9780133922851

Reece, Jane and Lisa Urry, Michael Cain, Steven Wasserman, Peter Minorsky & Robert Jackson. **Campbell Biology**, 10th edition. Publisher: Pearson. Access to the online resource **Mastering Biology is required**

IV. Course Title: Cellular & Organismal Bio I BI-215-02-1

V. Course Description: Introduction to animal and plant diversity, with emphasis on form and function, mechanisms of regulation in biological systems, and how organisms exchange materials and energy with their environment.

VI. Learning Outcomes.

Student Learning Outcomes	Corresponding Biology Program Learning Outcomes
Use proper anatomy and physiology terminology.	#2) Ability to visualize and interpret scientific data, and to communicate science effectively both orally and in writing. #4) An understanding of the chemical and physical principles that unite all life forms, and of biological organization at the molecular, cellular, tissue, organ, organism and systems level.
Describe plant anatomy, organ systems and physiological processes	
Identify animal's biological structures and body systems, describe how those body systems relate to each other and be able to explain their general anatomy and physiology.	
Gain an appreciation of the diversity of organisms, their evolution, and phylogeny.	

VII. Grading Scale

Grading scale :
A 90 – 100%
B 80 – 89%
C 70 – 79%
D 60 - 69%
F less than 60%

VIII. Assignments and Grading

<u>Specific Assignment</u>	<u>Points</u>	<u>% Of Grade</u>	<u>Due Date</u>
Homework	100	25	As assigned in Mastering
Exam 1	100	25	10/02/2017
Exam 2	100	25	11/22/2017
Final (comprehensive)	100	25	TBA

IX. Additional Departmental and University Policies

1. Electronic Devices

Use of music devices and cell phones is prohibited during all Natural Science and Mathematics classes at Chaminade, unless specifically permitted by your instructor. Use of cellphones and music devices in laboratories is a safety issue. In addition, use of cellphones and music devices in any class is discourteous and may lead to suspicion of academic misconduct. Students who cannot comply with this rule will be asked to leave class and may be subject to laboratory safety violation fines. You will be asked to leave class and marked absent if you do not comply. This will negatively affect your grade. Please refer any questions to the Dean of Natural Sciences and Mathematics.

2. ADAA Statement

2.1 Pursuant to several federal and state laws, including the Americans with Disabilities Act of 1990, as amended by the ADA Amendments Act of 2008, and Section 504 of the Rehabilitation Act of 1973, all qualified students with disabilities are protected from discrimination on basis of disability and are eligible for reasonable accommodations or modifications in the academic environment to enable them to enjoy equal access to academic programs, services, or activities. If a student would like to determine if they meet the criteria for accommodations, they should contact the Counseling Center at 808-735-4845 for further information.

3. Attendance

3.1 Students are expected to attend regularly all courses for which they are registered. Students should notify their instructors when illness or other extenuating circumstances prevents them from attending class and make arrangements to complete missed assignments. Notification may be done by emailing the instructor's Chaminade email address, calling the instructor's campus extension or by leaving a message with the instructor's division office (Natural Science and Math 1 (808) 440-4204). It is the instructor's prerogative to modify deadlines of course

requirements accordingly. Any student who stops attending a course without officially **withdrawing** may receive a failing grade.

3.2 Unexcused absences equivalent to more than a week of classes may lead to a grade reduction for the course. Any unexcused absence of two consecutive weeks or more may result in being **withdrawn** from the course by the instructor, although the instructor is not required to **withdraw** students in that scenario. Repeated absences put students at risk of failing grades.

4. Policy on Make-Up Tests

Make-Up test will be granted only in case of excused absence.

5. Policy on Communication

5.1 The University provides a Chaminade email address for all students. Official Chaminade communications will be sent to the students' Chaminade email address and instructors will use only this email to communicate with students. It is the responsibility of the student to check their email frequently. Report email-related problems to the Helpdesk at 808-735-4855 or helpdesk@chaminade.edu.

6. Laboratory Safety Information

The following guidelines are established to provide instructions in maintaining safety for students, staff, and faculty while using any of the science laboratories at Chaminade University. The Division of Natural Sciences and Mathematics (NSM), along with the University Environmental Safety Office are responsible for enforcing the regulations set forth in the current Student Handbook. Queries should be addressed to: Dean of Natural Sciences and Mathematics (808) 440-4204; Environmental Safety Officer (808) 739-4811

7. Title IX Declaration

Chaminade University of Honolulu recognizes the inherent dignity of all individuals and promotes respect for all people. Sexual misconduct, physical and/or psychological abuse will NOT be tolerated at CUH. If you have been the victim of sexual misconduct, physical and/or psychological abuse, we encourage you to report this matter promptly. As a faculty member, I am interested in promoting a safe and healthy environment, and should I learn of any sexual misconduct, physical and/or psychological abuse, I must report the matter to the Title IX Coordinator. Should you want to speak to a confidential source you may contact the following:

- Chaminade Counseling Center| 808 735-4845.
- Any priest serving as a sacramental confessor or any ordained religious leader serving in the sacred confidence role.

8. Academic Honesty

Students are expected to have read and to abide by the "Student Rules of Conduct" which are available in your copy of Chaminade University's Student Handbook. Cheating in the form of plagiarism, collusion, deception and will not be tolerated and will negatively affect your grade.

9. The instructor may modify elements of this syllabus according to the operational needs of the class.

X. Tentative schedule

Date	Topic	Chapter
Monday 8/28/2017	Introduction to the course	
Wednesday 8/30/2017	Introduction to Science and Life	1
Friday 9/1/2017	History of Life	25
Monday 9/4/2017	Labor day (no class)	
Wednesday 9/6/2017	History of Life	25
Friday 9/8/2017	Descent with Modification	22
Monday 9/11/2017	Descent with Modification	22
Tuesday 9/12/2017	Phylogeny	26
Wednesday 9/13/2017	Phylogeny	26
Thursday 9/14/2017	Bacteria & Archaea (overview)	27
Friday 9/15/2017	Protista (overview)	28
Monday 9/18/2017	Plant diversity I	29
Wednesday 9/20/2017	Plant diversity II-Angiosperm reproduction	30
Friday 9/22/2017	Plant Response to Internal & External Signals	Movie
Monday 9/25/2017	Overview of Animal diversity	32
Wednesday 9/27/2017	Invertebrates	33
Friday 9/29/2017	Invertebrates	33
Monday 10/2/2017	— Exam 1 (tentative date)	
Wednesday 10/4/2017	Vertebrates	34
Friday 10/6/2017	Vertebrates	34
Monday 10/9/2017	Discoverers' Day (no class)	
Wednesday 10/11/2017	Vertebrates	34
Friday 10/13/2017	Basic Principles of Animal Form & Function	40
Monday 10/16/2017	Animal Nutrition	41
Wednesday 10/18/2017	Animal Nutrition	41
Friday 10/20/2017	Circulation & Gas Exchange	42
Monday 10/23/2017	Circulation & Gas Exchange	42
Wednesday 10/25/2017	Immune system	43
Friday 10/27/2017	Immune system	43
Monday 10/30/2017	Immune system	43
Wednesday 11/1/2017	Osmoregulation & Excretion	44
Friday 11/3/2017	Osmoregulation & Excretion	44
Monday 11/6/2017	Hormones & Endocrine System	45
Wednesday 11/8/2017	Hormones & Endocrine System	45
Friday 11/10/2017	— Veterans' Day (no class)	
Monday 11/13/2017	Hormones & Endocrine System	45
Wednesday 11/15/2017	Hormones & Endocrine System	45
Friday 11/17/2017	Animal Reproduction & Development	46
Monday 11/20/2017	Animal Reproduction & Development	46
Wednesday 11/22/2017	— Exam 2 (tentative date)	
Friday 11/24/2017	— Thanksgiving (no class)	
Monday 11/27/2017	Nervous System	49
Wednesday 11/29/2017	Nervous System	49
Friday 12/1/2017	Nervous System	49
Monday 12/4/2017	Nervous System	49
Wednesday 12/6/2017	Animal behavior (if time permits)	51
Friday 12/8/2017	Nervous System-Last day of instruction.	51