

Course Syllabus

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Semester: Fall 2022

Course: BI 321L

Course Title: Advanced Human and Comparative Anatomy Lab

Credits: 1

Format: Lab

Class time: Tues 2:30-5:20pm

Classroom location: Henry Lab 2

Instructor Information:

Dr. Mike Dohm, Ph.D.

Associate Professor of Biology, School of Natural Science and Mathematics

Office: Wesselcamper 108

Office hours: Mon & Fri 9 – 11am, Thurs 2 – 4pm, or by appt (CANVAS)

Email: mdohm [at] chaminade.edu

Course Description

One three-hour laboratory period per week to accompany BI 321. Simulated gross anatomy of the human and laboratory dissections of organisms including lamprey, dogfish, and cat. Opportunities to participate in human gross anatomical systems review at the Willard Body Program (John A. Burns' School of Medicine human cadaver laboratory) are provided.

Prerequisites: EN 102, COM 101, BI 216, BI 216L

Co-requisite: BI 321

Required Text

Fishbeck and Sebastiani

Comparative Vertebrate Anatomy, Manual of Vertebrate Dissection, Second Edition (or higher). Morton Publishing Company 2001.

All other reading materials will be provided or sourced from free access on the internet.

Course Elements

This course provides a comprehensive overview of human anatomy. It also reviews the evolution of the human body systems and compares this to all vertebrate groups. The germ line development, physical influences on morphology and function and the adaptation to environment and behavior are discussed in detail. Students are responsible for all text assignments, as well as supplementary handouts. Students are encouraged to read ahead to keep up with high volume of material, do NOT underestimate how much this will help you in class!!!

Assignments and Grading

A total of 600 points are available during the semester. Assignments, point value, and how many assignments are provided in the table

Specific Assignment	Points	How many	% Of Grade	Total points
Attendance	2	15	5	30
Participation	10	15	25	150
Lab book	30	2	10	60
Quizzes & Worksheets	6	10	10	60
Exams	150	2	50	300

Grading Scale

A	Excellent	≥ 90%	540 to 600
B	Good	≥ 80% to < 90%	480 to 539
C	Average	≥ 70% to < 80%	420 to 479
D	Below average	≥ 60% to < 70%	360 to 419
F	Failure	< 60%	< 359

Learning Outcomes

Marianist Values

Refer to your Canvas WELCOME learning module to see specifically how this class aligns with Marianist Values.

This class represents one component of your education at Chaminade University of Honolulu. An education in the Marianist Tradition is marked by five principles and you should take every opportunity possible to reflect upon the role of these characteristics in your education and development:

1. Education for formation in faith
2. Provide an integral, quality education
3. Educate in family spirit
4. Educate for service, justice and peace
5. Educate for adaptation and change

Native Hawaiian Values

Education is an integral value in both Marianist and Native Hawaiian culture. Both recognize the transformative effect of a well-rounded, value-centered education on society, particularly in seeking justice for the marginalized, the forgotten, and the oppressed, always with an eye toward God (Ke Akua). This is reflected in the 'Ōlelo No'eau (Hawaiian proverbs) and Marianist core beliefs:

1. Educate for Formation in Faith (Mana) E ola au i ke akua ('Ōlelo No'eau 364) May I live by God
2. Provide an Integral, Quality Education (Na'auao) Lawe i ka ma'alea a kū'ono'ono ('Ōlelo No'eau 1957) Acquire skill and make it deep
3. Educate in Family Spirit ('Ohana) 'Ike aku, 'ike mai, kōkua aku kōkua mai; pela iho la ka nohana 'ohana ('Ōlelo No'eau 1200) Recognize others, be recognized, help others, be helped; such is a family relationship
4. Educate for Service, Justice and Peace (Aloha) Ka lama kū o ka no'eau ('Ōlelo No'eau 1430) Education is the standing torch of wisdom
5. Educate for Adaptation and Change (Aina) 'A'ohe pau ka 'ike i ka hālau ho'okahi ('Ōlelo No'eau 203) All knowledge is not taught in the same school

Student Class Content Learning Outcomes

Linkage to Program Learning Outcomes

1. Understand how comparative anatomy is used to view/discern evolutionary relationships PLO 4,5
2. Examine different vertebrates and their interactions with both the abiotic and biotic components of their environment PLO 1,2,4,5,6
3. Understand the structural and physiological adaptations of representative vertebrate groups to their environments PLO 1,2,4,5,6
4. Gain an appreciation of the structure-function relationships in representative vertebrates PLO 1-6

Biology Program Learning Outcomes (PLO)

Upon completion of the B.S. degree program in Biology the student will demonstrate:

1. Apply the scientific method in the design and testing of hypotheses
2. Transform and display, statistically evaluate, validate, and interpret scientific data and communicate the results of such analyses effectively both orally and in writing
3. Acquire, summarize, and synthesize information from published scientific literature, databases and bioinformatics software to extract and interpret biological data
4. Recognize the chemical and physical principles that underlie all life forms, and the biological organization at the molecular, cellular, tissue, organ, organism, and system levels that emerge from these principles
5. Define the components and processes of genetic and epigenetic information transmission, and their determinant effects on the adaptive and evolutionary processes that they drive
6. Evaluate the etiology of major human disease burden in terms of, pathophysiological mechanisms, epidemiology within populations and possible therapeutic approaches
7. Integrate an awareness of bioethical issues to positively influence the application of science to service, justice and peace in the solution of societal problems.

Technical Assistance for Canvas

This information can also be found in the WELCOME MODULE in 'Instructions for using Technology in this class'.

- Search for help on specific topics or get tips in Canvas Students
- Live chat with Canvas Support for students
- Canvas Support Hotline for students: 833-209-6111
- Watch this video to get you started
- Online tutorials: click on "Students" role to access tutorials
- Contact the Chaminade IT Helpdesk for technical issues: helpdesk@chaminade.edu or call 808-735-4855

Tutoring and Writing Services

Chaminade is proud to offer free, one-on-one tutoring and writing assistance to all students. Tutoring and writing help is available on campus at Kōkua 'Ike: Center for Student Learning in a variety of subjects (including, but are not limited to: biology, chemistry, math, nursing, English, etc.) from trained Peer and Professional Tutors. Please check Kōkua 'Ike's website

(<https://chaminade.edu/advising/kokua-ike/> (<https://chaminade.edu/advising/kokua-ike/>)) for the latest times, list of drop-in hours, and information on scheduling an appointment. Free online tutoring is also available via TutorMe or Smarthinking. Tutor Me and Smarthinking can be accessed 24/7 from your Canvas account. Simply click Account – Notifications – TutorMe or Smarthinking. For more information, please contact Kōkua 'Ike at tutoring@chaminade.edu or 808-739-8305.

Additional Departmental and University Policies

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.

ADAA Statement

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.

Disability access

If you need individual accommodations to meet course outcomes because of a documented disability, please speak with me to discuss your needs as soon as possible so that we can ensure your full participation in class and fair assessment of your work. 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 Kōkua 'Ike: Center for Student Learning by the end of week three of the class, in order for instructors to plan accordingly. If a student would like to determine if they meet the criteria for accommodations, they should contact the Kōkua 'Ike Coordinator at (808) 739-8305 for further information (ada@chaminade.edu).

Attendance

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 should make arrangements to complete their 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 department office (Natural Science and Mathematics - 808-440-4204). It is the instructor's prerogative to modify deadlines of course requirements accordingly.

Chaminade administrative withdrawal policy. If a student misses two consecutive classes (two weeks) in an unexcused fashion (i.e. with prior email approval from me) then the instructor can withdraw student from the class.

Additional attendance requirements

Attendance and participation account for 30% of the grade (180/600 points). Thus, failure to attend will also affect participation scores; no attendance equals no participation. Thus, no more than four classes may be missed across the whole semester. Failure to score at least 20 points on attendance will result in failure of the course.

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.

Tardiness

Reasons for tardiness should be explained to the instructor at the end of the class. Repeated tardiness may lead to a grade reduction for the course. Repeated unexcused tardiness may result in discussion with the instructor regarding the ability of the student to commit to the class.

Policy on Make-Up Tests

Makeup exams and quizzes are not given unless a student is ill and contacts the instructor within 24 hours of missed class period. A doctor's written excuse should be supplied at the NEXT class attended. Extra credit opportunities may be available during the course of regular lectures or may be written into the exams.

Policy on Communication

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 (<mailto:helpdesk@chaminade.edu>).

Refer to the instructions in the WELCOME MODULE ON CANVAS – 'What should I expect from my Instructor?'

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. If you or someone you know has been harassed or assaulted, you can find the appropriate resources by visiting Campus Ministry, the Dean of Students

Office, the Counseling Center, or the Office for Compliance and Personnel Services.

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

Academic Conduct Policy

Any community must have a set of rules and standards of conduct by which it operates. At Chaminade, these standards are outlined so as to reflect both the Catholic, Marianist values of the institution and to honor and respect students as responsible adults. All alleged violations of the community standards are handled through an established student conduct process, outlined in the Student Handbook, and operated within the guidelines set to honor both students' rights and campus values. For further information about code of conduct, please refer to Student Handbook section beginning at page 6 (link to pdf available at [Current Student Resources \(https://chaminade.edu/current-students/\)](https://chaminade.edu/current-students/)).

Students should conduct themselves in a manner that reflects the ideals of the University. This includes knowing and respecting the intent of rules, regulations, and/or policies presented in the Student Handbook, and realizing that students are subject to the University's jurisdiction from the time of their admission until their enrollment has been formally terminated. Please refer to the Student Handbook for more details. A copy of the Student Handbook is available on the Chaminade website.

Academic dishonesty, including but not limited to

- cheating
 - collaborating on assignments without express permission from instructor
 - copying or allowing to copy other student's work
- collusion
 - working together on individual assignment
- fabrication
 - altering collected data
 - altering images
- misrepresentation
 - any act intended to deceive an instructor to gain academic advantage
- plagiarism
 - representing someone else's work as your own

will not be tolerated.

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:

- Office of the Dean of Natural Sciences and Mathematics (808) 440-4204
- Environmental Safety Officer (808) 739-4811

About this syllabus

The instructor may modify elements of this syllabus according to the operational needs of the class. Please keep on track of changes given the fluctuating pandemic restrictions.

Course outline and schedule

link to [BI321L - Schedule](#)

Course Summary:

Date	Details	Due
Fri Aug 26, 2022	 First Assignment (https://chaminade.instructure.com/courses/20537/assignments/249209)	due by 11:59pm
	 Lab safety contract form (https://chaminade.instructure.com/courses/20537/assignments/249203)	due by 11:59pm
Mon Aug 29, 2022	 Submit your digital notebook's URL (https://chaminade.instructure.com/courses/20537/assignments/249793)	due by 5:30pm
	 Build a tree (https://chaminade.instructure.com/courses/20537/assignments/249798)	due by 11:59pm
Fri Sep 30, 2022	 Grade01 Notebook (https://chaminade.instructure.com/courses/20537/assignments/249791)	due by 11:59pm
Tue Oct 4, 2022	 Midterm quiz (https://chaminade.instructure.com/courses/20537/assignments/243265)	due by 5:20pm
Tue Nov 29, 2022	 Final exam (https://chaminade.instructure.com/courses/20537/assignments/243266)	due by 5:20pm
Fri Dec 2, 2022	 Grade02 Notebook (https://chaminade.instructure.com/courses/20537/assignments/249792)	due by 11:59pm