

Course Syllabus

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Reminder -- Starting Monday 24 August,
we are going online for the first three weeks
of the semester.



Chaminade
University
OF HONOLULU

Course Title: Molecular Biology I Genes and Genetics

Course Number: BI307

Course credits: 3

Term: Fall 2020

Meeting Days: Monday, Wednesday, Friday

Meeting Hours: 12:40pm - 1:40pm

Meeting Location: Henry Hall, Room 102

Instructor: Michael Dohm, PhD

Department: Biology, School of Natural Sciences and Mathematics, Chaminade University of Honolulu

Office: Wesselkamper Science Center (WSC) rm. 108

Office Hours: Tuesday, Wednesday, Thursday, 10am - 12pm or by appointment

Email: mdohm@chaminade.edu (<mailto:mdohm@chaminade.edu>).(current students: use [CANVAS Messaging](#))

Phone: 808-739-8543

Website: <https://letgen.org> [. \(https://letgen.org\)](https://letgen.org)

Course Overview

Genetics is a one semester introduction to the study of genes (the unit of heredity) and inheritance in biological organisms. Our focus will include patterns of inheritance (heritability, mutation), the relationship between genes, gene expression, environment, and phenotypes, molecular genetics (gene structure), biotechnology, and the genetics of cancer and regulation of the cell cycle. BI307 is intended to provide a firm foundation of genetic principles and analysis; BI308 continues your genetics education with a focus on genomics. Interestingly, most of the technology now in use to study genes and genomes are based on just two fundamental principles of molecular biology: (1) the hydrogen bonding of complementary nucleotide sequences and (2) interactions between specific proteins with specific nucleotide sequences. Application of these two principles will appear throughout the course. Since the late 1980s, the discipline of genetics has witnessed a revolution in methods and discovery. The impact of this revolution can be seen in the food we purchase the way our diseases are treated and perhaps even how we

the revolution can be seen in the food we purchase, the way our diseases are treated, and perhaps even how we view ourselves. Through lecture and discussion, we will explore these topics and reflect upon how the technology and resources of modern genetics influences the environment and human society. BI307, and the accompanying lab class BI 307L, is a web-enhanced course, i.e., instruction takes place in the classroom, and technology, including the website, are used to complement and support face-to-face instruction. All lecture media, course handouts, including the syllabus, will be made available through our web site.

University Course Catalog Description

Life cycles and meiosis. Mendelian inheritance. Population genetics. Chromosomal and molecular basis of inheritance. Flow of genetic information. Determining structure and function of genes. Mutation and DNA repair systems. Genetic basis of disease, DNA technology, typing and population genetics. Introduction to genomics and epigenetics.

Course Prerequisites

BI 210L, BI 216 and BI 216L (Biology majors). Cross-listed with BC 307.

Required Learning Materials

Required textbook. Concepts of Genetics 12th ed., 2019, by Klug et al., ISBN: 9780134839707. The 12th edition is available in several formats including a Kindle version. Make sure to get an official copy, preferably through the [Chaminade University Bookstore](https://chaminade.bncollege.com/shop/chaminade/page/find-textbooks) [_\(https://chaminade.bncollege.com/shop/chaminade/page/find-textbooks\)](https://chaminade.bncollege.com/shop/chaminade/page/find-textbooks). This version includes access to Pearson's Mastering Genetics, your source for homework assignments.

Textbooks are expensive; instructors at Chaminade recognize that students may seek alternatives to the required textbooks. While the previous edition (ISBN: 9780321948915) was used as recently as Spring 2020, and the texts are not substantively different, Dr Dohm strongly recommends that students purchase the required edition. Problem sets assigned or suggested will come from the 12th edition and Mastering Genetics. Access to Pearson's online web site is required and highly recommended as a study aid. Note: *Concepts of Genetics*, 12th ed., is also suggested for BI 308 Genomes & Epigenetics.

However, finding *additional* resources in addition to the required textbook is encouraged. Reading from a diversity of voices about subjects will benefit student learning. Recommended, but not required alternative textbooks include

- Open Genetics - Winter 2012, by Dayholos. DOI: <https://doi.org/10.7939/R33T9D750>
[_\(https://doi.org/10.7939/R33T9D750\)](https://doi.org/10.7939/R33T9D750)
- *Essentials of Genetics*, 8th edition, by Klug et al. (ISBN: 9780321803115)
- *Introduction to Genetic Analysis*, 10th ed., 2010, by Griffiths et al., ISBN: 9781429276344,
- Lewin's Essential Genes, by Krebs et al., ISBN: 9781449644796. There will be additional readings provided to the student throughout the course. [_\(https://chaminade.bncollege.com/shop/chaminade/page/find-textbooks\)](https://chaminade.bncollege.com/shop/chaminade/page/find-textbooks)

Technical Assistance for Canvas Users:

The BI307 and BI307L websites are supported by the Canvas course management platform. CANVAS is the CMS adopted by Chaminade University. Assistance with CANVAS

- Search ([Google \(google.com\)](https://www.google.com), Bing, etc.) for help on specific topics or get tips in Canvas Students.
- Live chat with Canvas Support for students

- Canvas Support Hotline for students: +1-833-209-6111
- 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

Mastering Genetics Technical Assistance

We rely on Mastering Genetics for Homework and Quizzes. The course ID: dohm10244.

However, before you can start with Mastering Genetics for BI307 Genetics Fall 2020 Dohm (course ID: dohm10244) you need to have

1. An account with Pearson
2. An access code for Mastering Genetics, which you got from your purchase of the textbook via the Chaminade University Bookstore

Click here to get the [instructions for accessing Mastering Genetics for BI307 Genetics Fall 2020 Dohm \(course ID: dohm10244\) Pearson](#)

Assessment

Quizzes are multiple-choice or one word-answer format and will be taken online via the Canvas or at [Pearson’s Mastering Genetics](#) (<https://www.pearsonmylabandmastering.com/northamerica/masteringgenetics/>) websites. Quizzes are scheduled outside of scheduled class time. Quizzes will be available for a minimum of 24-48 hours to access and complete the assignment. However, once you start, you are permitted 50 minutes to complete and submit the quiz. You have the right to take any or all quizzes by paper; you would then take the quiz as part of an arranged proctored session outside of regular class hours but before the due date for the quiz. The advantage of taking the quizzes online is that it permits rapid grading and immediate feedback – because the quizzes are predominately multiple choice, you will receive immediate feedback once the quiz closes. The quizzes are open-book, open-notes; however, you are strongly encouraged to avoid the temptation to complete the quizzes simply by looking through your text and notes for answers. First, you will likely run out of time. Second, the quizzes are intended to demonstrate your current understanding of the material. There are a total of ten (10) quizzes; all count to the final grade.

Worksheets: Up to four assignments, one per exam period. Worksheets range from solving assigned problems from your textbook to writing short essays on topics related to the course.

Participation: A total of 30 points are possible for participation and regular attendance. Students with regular attendance, defined as no more than four, nonconsecutive, unexcused absences during the semester, will be awarded 6 points – all others will receive zero points. Attendance is important, but your active, meaningful participation during class will also be evaluated. You will be expected to facilitate classroom and forum exam discussions by asking questions (facilitator: up to 15 points possible); you are also expected to respond to forum postings and contribute to classroom discussions (responder: up to 9 points).

Exams comprise between 10 and 15 questions (approximately 25% multiple choice, 75% short answer format). Each exam will have opportunities for bonus points (10% per exam). Exams 2 – 3 will include cumulative content from previous exams.

Homework is a required element for BI307. Homework and quizzes are delivered via [Pearson’s Mastering](#)

[Genetics website](https://www.pearsonmylabandmastering.com/northamerica/masteringgenetics/) (https://www.pearsonmylabandmastering.com/northamerica/masteringgenetics/). Homework is assigned for each chapter. Due dates for assignments are reported as month/day (mm/dd). In general, assignments are due by 8:59am HST on the date due. Details about each graded element are discussed in class with materials posted in Canvas.

Points available and weights for each graded element are listed in the table.

Item	How many?	Points	Weight
Quizzes	10	20	4%
Mastering Genetics Homework	weekly	120	24%
Worksheets	5	25	5%
Exams	3	315	63%
Participation	weekly	20	4%
		500	100%

Official grade records

Canvas provides a way for you to monitor your graded assignments. This is convenient, but students should be aware that the final word about grades depends on the Official Grade Book for the course. Thus, although the Canvas record will show your points for an assignment, be advised that your assigned grade is finalized by the official grade book, which is maintained by Dr Dohm. You may always inquire about your current standing in the course by sending a [message to Dr Dohm from within Canvas](#).

Grading Scale

Letter grades are given in all courses except those conducted on a credit/no credit basis. They are interpreted as follows:

A	92 - 100%	Outstanding scholarship and an unusual degree of intellectual initiative
B	80 - 89%	Superior work done in a consistent and intellectual manner
C	70 - 79%	Average grade indicating a competent grasp of subject matter
D	50 - 69%	Inferior work of the lowest passing grade, not satisfactory for fulfillment of prerequisite course work.
F	< 49%	Failed to grasp the minimum subject matter; no credit given

Course Schedule

The schedule is tentative and subject to change by the instructor.

Due dates for assignments are reported as month/day (mm/dd). In general, assignments are due by 8:59am HST on the date due. All pages refer to 12th edition of *Concepts of Genetics*.

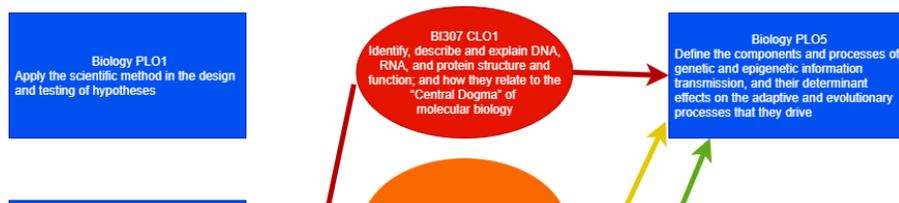
Click [here to view the Lecture and Assignments schedule for BI307](#).

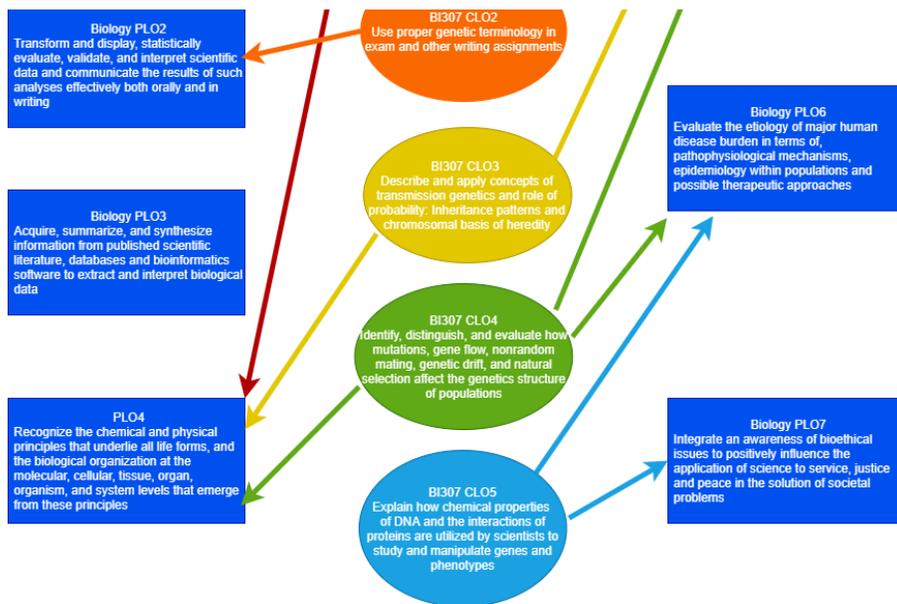
Student (Course) Learning Outcomes

1. PLO4, 5. Identify, describe and explain DNA, RNA, and protein structure and function; and how they relate to the “Central Dogma” of molecular biology
2. PLO2. Use proper genetic terminology in exam and other writing assignments
3. PLO4, 5. Describe and apply concepts of transmission genetics and role of probability: Inheritance patterns and chromosomal basis of heredity
4. PLO4, 5, 6. Identify, distinguish, and evaluate how mutations, gene flow, nonrandom mating, genetic drift, and natural selection affect the genetics structure of populations
5. PLO2, 6, 7. Explain how chemical properties of DNA and the interactions of proteins are utilized by scientists to study and manipulate genes and phenotypes

Alignment of Course Learning Outcomes (CLO) to Biology Program Outcomes (PLO)

Course Learning Outcomes	Biology Program Learning Outcomes
1	4, 5
2	2
3	4, 5
4	4, 5, 6
5	2, 6, 7





Biology Program Learning Outcomes

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

University outcomes

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 'Olelo No'eau (Hawaiian proverbs) and Marianist core beliefs:

1. Educate for Formation in Faith (Mana) E ola au i ke akua ('Olelo 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 ('Olelo 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 ('Olelo 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 ('Olelo 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 ('Olelo No'eau 203) All knowledge is not taught in the same school

Alignment of Natural Sciences Courses with Marianist and Hawaiian values of the University.

The Natural Sciences Division provides an integral, quality education: sophisticated integrative course content taught by experienced, dedicated, and well-educated instructors.

- We educate in the family spirit – every classroom is an Ohana and you can expect to be respected yet challenged in an environment that is supportive, inclusively by instructors who take the time to personally get to know and care for you.
- We educate for service, justice and peace, since many of the most pressing global issues (climate change, health inequity, poverty, justice) are those which science and technology investigate, establish ethical parameters for, and offer solutions to.
- We educate for adaptation and change. In science and technology, the only constant is change. Data, techniques, technologies, questions, interpretations and ethical landscapes are constantly evolving, and we teach students to thrive on this dynamic uncertainty.

The study of science and technology can be formative, exploring human creativity and potential in the development of technologies and scientific solutions, the opportunity to engage in the stewardship of the natural world, and the opportunity to promote social justice. We provide opportunities to engage with the problems that face Hawai'i and the Pacific region through the Natural Sciences curriculum, in particular, those centered around severe challenges in health, poverty, environmental resilience, and erosion of traditional culture. The Marianist Educational Values relate to Native Hawaiian ideas of mana, na'auao, ohana, aloha and aina. We intend for our Natural Sciences programs to be culturally-sustaining, rooted in our Hawaiian place, and centered on core values of Maiau, be neat, prepared, careful in all we do; Makawalu, demonstrate foresight and planning; `Ai, sustain mind and body; Pa`a Na`au, learn deeply.

Course policies

Instructor and Student Communication

Questions for this course can be posted to the instructor via CANVAS. Online, in-person and phone conferences can be arranged. Most messages to Canvas will be replied within 24 hours. Email to instructor's chaminade.edu e-mail may take up to 3 days for response.

Accessibility and Accommodations

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 the Counseling Center 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 Counseling Center at (808) 735-4845 for further information (counselingcenter@chaminade.edu).

Title IX Compliance

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.

Attendance Policy

The following attendance policy is from the [Chaminade University Undergraduate Catalog \(https://catalog.chaminade.edu/generalinformation/academicaffairs/policies/attendance\)](https://catalog.chaminade.edu/generalinformation/academicaffairs/policies/attendance): Students are expected to attend regularly all courses for which they are registered. Student 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. 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. 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. Students with disabilities who have obtained accommodations from the Chaminade University of Honolulu ADA Coordinator may be considered for an exception when the accommodation does not materially alter the attainment of the learning outcomes. Federal regulations require continued attendance for continuing payment of financial aid. When illness or personal reasons necessitate continued absence, the student should communicate first with the instructor to review the options. Anyone who stops attending a course without official withdrawal may receive a failing grade or be withdrawn by the instructor at the instructor's discretion.

Online Attendance

During the first three weeks (subject to change), this course is primarily online. Attendance for this course during the online phase is based on the (1) timely submission of assignments and/or (2) logging onto the course at least once per week. Students will receive credit for 'attending' the class each time a weekly assignment is submitted and/or each time student signs on to the course and navigate to at least one page or module removed from the home page within the Canvas system for the course. Some weekly lessons require the submission of one assignment, some require two. Each lesson will indicate when it is complete. The student is responsible for pressing the 'submit' button each time he or she has completed an assignment. If the page indicating that the assignment has been

button each time he or she has completed an assignment. If the page indicating that the assignment has been submitted does not appear, then the assignment has not been submitted.

Late Work Policy

There are no make-ups for quizzes, unless a physician's note documents your absence during quizzes. Journal article presentations CANNOT be made-up. Quizzes and assignments are due by 8:59am HST on the assigned date. Up to 10% grade reduction will be assessed for each 12 hour late assignment. All quizzes and assignments close by 3 days post the due date.

Grades of "Incomplete"

Students and instructors may negotiate an incomplete grade when there are specific justifying circumstances. An Incomplete Contract (available from the Divisional Secretary and the Portal) must be completed. When submitting a grade, the "I" will be accompanied by the alternative grade that will automatically be assigned after 90 days. These include IB, IC, ID, and IF. If only an "I" is submitted the default grade is F. The completion of the work, evaluation, and reporting of the final grade is due within 90 days after the end of the semester or term. This limit may not be extended.

Writing Policy

Instructions for the writing assignments are detailed for each individual assignment on the canvas course page.

Potential resources for writing assignments:

- Google Scholar
- Pubmed
- Sullivan Library

Cell phones, tablets, and laptops

Music Devices and Cellular Phones: Unless specifically permitted by your instructor, use of music devices and cell phones is prohibited during all Natural Science and Mathematics classes, as it is discourteous and may lead to suspicion of academic misconduct. Students unable to comply will be asked to leave class. Out of consideration for your classmates, please set your cell phone to silent mode during class. Students are encouraged to bring laptops or tablets to class as the instructor will assign online activities and readings that will require the use of a laptop or tablet. Laptops and tablets should not be misused, such as checking distracting websites. Use your best judgment and respect your classmates and instructor.

Academic Conduct Policy

The success of the Honor Code is made possible only with the acceptance and cooperation of every student. Each student is expected to maintain the principles of the Code. Example of Honor Code violations include, but are not limited to: • Giving or receiving information from another student during an examination; • Using unauthorized sources for answers during an examination; • Illegally obtained test questions before the test; • Any and all forms of

plagiarism – submit all or part of someone else's work or ideas as your own; • The destruction and/or confiscation of school and/or personal property.

Violations of Academic Integrity: Violations of the principle include, but are not limited to:

- Cheating: Intentionally using or attempting to use unauthorized materials, information, notes, study aids, or other

devices in an academic exercise.

- Fabrication and Falsification: Intentional and unauthorized alteration or invention of any information or citation in an academic exercise. Falsification is a matter of inventing or counterfeiting information for use in any academic exercise.
- Multiple Submissions: The submission of substantial portions of the same academic work for credit (including oral reports) more than once without authorization.
- Plagiarism: Intentionally or knowingly presenting the work of another as one's own (i.e., without proper acknowledgment of the source).
- Abuse of Academic Materials: Intentionally or knowingly destroying, stealing, or making inaccessible library or other academic resource materials.
- Complicity in Academic Dishonesty: Intentionally or knowingly helping or attempting to help another to commit an act of academic dishonesty.

Plagiarism includes, but is not limited to:

- Complete or partial copying directly from a published or unpublished source without proper acknowledgement to the author. Minor changes in wording or syntax are not sufficient to avoid charges of plagiarism. Proper acknowledgement of the source of a text is always mandatory.
- Paraphrasing the work of another without proper author acknowledgement.
- Submitting as one's own original work, however freely given or purchased, the original exam, research paper, manuscript, report, computer file, or other assignment that has been prepared by another individual.

Consequences of academic honesty violations:

From the [Chaminade University catalog](#)

(<https://catalog.chaminade.edu/generalinformation/academicaffairs/policies/academichonesty>): Academic honesty is an essential aspect of all learning, scholarship, and research. It is one of the values regarded most highly by academic communities throughout the world. Violations of the principle of academic honesty are extremely serious and will not be tolerated. Students are responsible for promoting academic honesty at Chaminade by not participating in any act of dishonesty and by reporting any incidence of academic dishonesty to an instructor or to a University official. Academic dishonesty may include theft of records or examinations, alteration of grades, and plagiarism, in addition to more obvious dishonesty. Questions of academic dishonesty in a particular class are first reviewed by the instructor, who must make a report with recommendations to the Dean of the Academic Division. Punishment for academic dishonesty will be determined by the instructor and the Dean of Academic Division and may include an "F" grade for the work in question, an "F" grade for the course, suspension, or dismissal from the University.

Additional information on student conduct can be found in the student handbook.

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

Online Tutoring through Smarthinking

• All CUH students are eligible to use Smarthinking, an online tutoring system. Students can access Smarthinking via their Canvas account. • Through Smarthinking, students can connect in real-time with an expert educator in a variety of subjects using a virtual whiteboard technology. Students also have an option to schedule a 30-minute appointment with a tutor of their choice. The Online Writing Lab provides students with the ability to receive a detailed, personalized critique of any written assignment through a formal critique process. • All sessions are archived and available for students to review at any time for studying or test preparation.

Course Summary:

Date	Details	
Tue Aug 25, 2020	 First Homework (https://chaminade.instructure.com/courses/12883/assignments/138477)	due by 11:59pm
Fri Aug 28, 2020	 Quiz01 (https://chaminade.instructure.com/courses/12883/assignments/138512)	due by 11:59am
	 Homework01 (https://chaminade.instructure.com/courses/12883/assignments/138479)	due by 11:59am
Wed Sep 2, 2020	 Homework02 (https://chaminade.instructure.com/courses/12883/assignments/138494)	due by 11:59am
	 Quiz02 (https://chaminade.instructure.com/courses/12883/assignments/138514)	due by 11:59am
Wed Sep 9, 2020	 Homework03 (https://chaminade.instructure.com/courses/12883/assignments/138498)	due by 11:59am
Fri Sep 11, 2020	 Quiz03 (https://chaminade.instructure.com/courses/12883/assignments/138517)	due by 11:59am
Mon Sep 14, 2020	 Homework04 (https://chaminade.instructure.com/courses/12883/assignments/138499)	due by 11:59am
Wed Sep 16, 2020	 Quiz04 (https://chaminade.instructure.com/courses/12883/assignments/138518)	due by 11:59am
Fri Sep 25, 2020	 Homework05 (https://chaminade.instructure.com/courses/12883/assignments/138500)	due by 11:59am
Mon Sep 28, 2020	 Homework06 (https://chaminade.instructure.com/courses/12883/assignments/138502)	due by 11:59am

Date	Details	
Wed Sep 30, 2020	 Quiz05 (https://chaminade.instructure.com/courses/12883/assignments/138519)	due by 11:59am
Mon Oct 5, 2020	 Homework07 (https://chaminade.instructure.com/courses/12883/assignments/138503)	due by 11:59am
Wed Oct 7, 2020	 Quiz06 (https://chaminade.instructure.com/courses/12883/assignments/138522)	due by 11:59am
Wed Oct 14, 2020	 Homework08 (https://chaminade.instructure.com/courses/12883/assignments/138504)	due by 11:59am
Fri Oct 16, 2020	 Homework09 (https://chaminade.instructure.com/courses/12883/assignments/138505)	due by 11:59am
Mon Oct 19, 2020	 Quiz07 (https://chaminade.instructure.com/courses/12883/assignments/138523)	due by 11:59am
Mon Oct 26, 2020	 Homework10 (https://chaminade.instructure.com/courses/12883/assignments/138506)	due by 11:59am
Wed Oct 28, 2020	 Quiz08 (https://chaminade.instructure.com/courses/12883/assignments/138524)	due by 11:59am
Mon Nov 2, 2020	 Homework11 (https://chaminade.instructure.com/courses/12883/assignments/138507)	due by 11:59am
Wed Nov 4, 2020	 Quiz09 (https://chaminade.instructure.com/courses/12883/assignments/138525)	due by 11:59am
Mon Nov 16, 2020	 Homework12 (https://chaminade.instructure.com/courses/12883/assignments/138508)	due by 11:59am
Wed Nov 18, 2020	 Quiz10 (https://chaminade.instructure.com/courses/12883/assignments/138526)	due by 11:59am
	 Bonus -- movie Life Story (https://chaminade.instructure.com/courses/12883/assignments/124805)	
	 Bonus -- Reflection (https://chaminade.instructure.com/courses/12883/assignments/124804)	
	 Dropbox for "gene" definition (https://chaminade.instructure.com/courses/12883/assignments/124807)	

Date

Details



Exam 1 -- in class score

<https://chaminade.instructure.com/courses/12883/assignments/124806>
