Course Syllabus

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Last updated 28 August 2023

Course Title: Molecular Biology I Genes and Genetics
Course Number: BI307
Course credits: 3
Term: Fall 2023
Meeting Days: Monday, Wednesday, Friday
Meeting Hours: 11:30am - 12:20pm
Meeting Location: Room 302 Hale Hoaloha, link to campus map (https://chaminade.edu/student-success/nso/nso-campus-map/)

Instructor: Michael Dohm, PhD
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Phone: (808) 739 -- 8543
Office Hours: 9 - 11 am on Wednesday & Friday or by appointment
E-mail: mdohm [at] chaminade.edu (current students, please use CANVAS messaging)
Website: letgen.org (https://letgen.org)

A pdf version of the syllabus is available from the Syllabus Archive (https://syllabus.chaminade.edu/) .

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.

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: 978-0134839707. 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)** . This version includes access to **Pearson's Mastering Genetics**, your source for homework assignments. Note: *Concepts of Genetics*, 12th ed., is also suggested for BI 308 Genomes & Epigenetics.

Pearson Mastering Genetics access

https://mlm.pearson.com/enrollment/dohm39602 (https://mlm.pearson.com/enrollment/dohm39602)

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)**
- *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)**

CANVAS

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.

Link: **https://chaminade.instructure.com/courses/28868/**

Technical Assistance for Canvas Users:

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

- Search (**Google (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 do not require use of Pearson's Mastering Genetics. Students are encouraged to take advantage of the resource. Access code will be provided in the first week of class. See **Pearson Mastering Genetics**.

Course Credit Hour Expectations

BI307 is a three-credit hour course and therefore requires a minimum of 135 hours of student engagement (see CUH Credit Hour Policy). One university semester credit hour typically includes one hour of in-class contact time with the professor plus two hours of preparation time spent outside of class by the student. Thus, over the course of the semester, students enrolled in BI307 are expected to spend about

40 hours in class, 20 hours on **quizzes**, 35 hours on **homework**, and up to 40 hours preparing for the four **exams** (3 midterm plus a 2-hour final exam). These times are approximate -- individual needs may vary. Time spent outside of class by students may be better expressed by tasks to do. For example, students can re-write and update lecture notes, perform focused reading from the textbook and other resources, problem solving, developing concept maps, and creating and taking practice exams.

Assessment

Quizzes are multiple-choice or short-answer format and will be taken online via the Canvas. 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 feed-back 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 eleven (11) quizzes; lowest score may be dropped.

Homework is a required element for BI307. Homework and quizzes are delivered via CANVAS. Homework is assigned for each chapter. Due dates for assignments are reported as month/day (mm/dd). In general, assignments are due by 11:59am HST on the date due. Details about each graded element are discussed in class with materials posted in Canvas. There are a total of eleven (11) homework assignments; lowest score may be dropped.

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 – 4 may include cumulative content from previous exams.

Participation: A total of 80 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 active, meaningful participation during class will also be evaluated. You will be expected to facilitate classroom and forum exam discussions by asking questions; you are also expected to respond to forum postings and contribute to classroom discussions.

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

Item	How many?	Points per item	Points	Weight
Quizzes (drop lowest score)	11	6	60	12%
Homework (drop lowest score)	11	6	60	12%
Exams	4	75	300	60%
Participation	weekly	5	80	16%
		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	≥ 90%	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	< 50%	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 11:59pm 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. Identify, describe and explain DNA, RNA, and protein structure and function; and how they relate to the “Central Dogma” of molecular biology
2. Use proper genetic terminology
3. Describe and apply concepts of transmission genetics and role of probability: Inheritance patterns and chromosomal basis of heredity
4. Identify, distinguish, and evaluate how mutations, gene flow, nonrandom mating, genetic drift, and natural selection affect the genetics structure of populations
5. Describe and analyze 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)

	PLO1	PLO2	PLO3	PLO4	PLO5	PLO6
CLO1				X		X
CLO2		X				X
CLO3		X		X		X
CLO4		X		X	X	X
CLO5				X		X

Biology Program Learning Outcomes

Upon completion the program in Biology, a graduating student will demonstrate the following competencies:

1. An understanding of the scientific method and the ability to design and test a hypothesis.

2. The ability to visualize, statistically evaluate, validate and interpret scientific data, and to communicate science effectively both orally and in writing.
3. The ability to acquire and comprehend information from published scientific literature and to employ computational resources in the resolution of biological problems.
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 system levels.
5. The ability to 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. An understanding of the entry requirements, career pathways and progression for the major post-graduate fields of research, education and the health professions.

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 (‘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

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

Canvas "grading"

Canvas "grades" are tentative and not official. Canvas scores available to students are not official until the instructor announces such to the class. Official grading is done by the instructor and records are kept on the instructor's computer.

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, often much sooner. Email to instructor's chaminade.edu e-mail may take up to 3 days for response.

Graded materials will be returned within 7 - 10 days.

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 & Tardiness

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 division office (Natural Science and Mathematics - 1 (808) 440-4204). It is the instructor’s prerogative to modify deadlines of course requirements accordingly.

Chaminade administrative withdrawal policy. If you miss two consecutive classes in an unexcused fashion (i.e. with prior email approval form me) then you will be withdrawn from the class.

Additional attendance and participation requirements. No more than six classes may be missed across the whole semester. Failure to score at least 50 points (80 possible) on attendance will result in failure of the course.

Consecutive unexcused absences equivalent to more than one 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.

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.

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:

- Slickwrite
- Google Scholar
- PubMed
- Sullivan Library

Cell phones, tablets, and laptops

Instructor policy: Students are encouraged to use personal digital devices during class provided such use does not distract others or interfere with class activities.

University policy: Music Devices and Cellular Phones: *Unless specifically permitted by your instructor* [emphasis by 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.

Recording of lecture material

Students may not record audio or video of lectures conducted by the instructor nor of any media presented during the lecture without prior permission from the instructor. All materials presented in class by the instructor will be made available to students.

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.

BI307 Lecture Schedule - updated

Click here for **Syllabus (https://chaminade.instructure.com/courses/28868/assignments/syllabus)**

BI307 Genetics Lecture tentative schedule, subject to change by instructor

Readings are from **12th edition of Concepts of Genetics (https://chaminade.instructure.com/courses/28868/pages/klug-concepts-toc)**

Every attempt has been made to create an accurate pathway through the material. However, the instructor reserves the right to alter this schedule as appropriate to correct any error, or based on our progress and in the event of unforeseen events which may affect our work with the material. **Last updated 19 August 2023.**

Week	Date	Day of week	Lecture	Note	Chapter	Topics, coverage	Quiz or Exam	Homework
1	Aug 21	Mon	0			Introduction	First assignment	
	Aug 23	Wed		No class	1			
	Aug 25	Fri	1		2	Mitosis & Meiosis		Hmk01
2	Aug 28	Mon	2				Quiz01	
	Aug 30	Wed	3		3 & 4	Mendelian		Hmk02
	Sep 01	Fri	4				Quiz02	
3	Sep 04	Mon		Labor Day No Class				
	Sep 06	Wed	5		7	Sex chromosomes		Hmk03
	Sep 08	Fri	6					
4	Sep 11	Mon	7		5	Linkage	Quiz03	
	Sep 13	Wed	8					Hmk04
	Sep 15	Fri	9				Quiz04	
5	Sep 18	Mon	10					

Week	Date	Day of week	Lecture	Note	Chapter	Topics, coverage	Quiz or Exam	Homework
	Sep 20	Wed				Ch1 – 5, 7	**Exam01**	
	Sep 22	Fri	1		10	DNA structure		
6	Sep 25	Mon	2		11	Replication & recombination		Hmk05
	Sep 27	Wed	3			Replication & recombination	Quiz05	
	Sep 29	Fri	4			Replication & recombination		
7	Oct 02	Mon	5			Replication & recombination		Hmk06
	Oct 04	Wed	6		8	Chromosome mutations	Quiz06	
	Oct 06	Fri	7			Chromosome mutations		
8	Oct 09	Mon		Discoverers' Day No class	15			
	Oct 11	Wed	8			Mutation, DNA repair		Hmk07
	Oct 13	Fri	9			Mutation, DNA repair	Quiz07	
9	Oct 16	Mon	10			Mutation, DNA repair		
	Oct 18	Wed				Ch8, 10 – 12, 15, Exam01	**Exam02**	
	Oct 20	Fri	1		Ch13	RNA & transcription		
10	Oct 23	Mon	2			RNA & transcription		Hmk08
	Oct 25	Wed	3		Ch14	Proteins & translation		
	Oct 27	Fri	4			Proteins & translation	Quiz08	
11	Oct 30	Mon	5		Ch16	Gene expression, Prokaryotes		

Week	Date	Day of week	Lecture	Note	Chapter	Topics, coverage	Quiz or Exam	Homework
	Nov 01	Wed	6		Ch17	Gene expression, Prokaryotes		Hmk09
	Nov 03	Fri	7			Gene expression, Eukaryotes		
12	Nov 06	Mon	8		Ch18 & 19	Gene expression, Eukaryotes		
	Nov 08	Wed	9			Gene expression, Eukaryotes	Quiz09	
	Nov 10	Fri	10			Gene expression, Eukaryotes		
13	Nov 13	Mon	11			Gene expression, Eukaryotes		
	Nov 15	Wed				Ch13 – 19, Exam02	**Exam03**	
	Nov 17	Fri	2		Ch25	Quantitative genetics		
14	Nov 20	Mon	3		Ch26	Evolutionary genetics		Hmk10
	Nov 22	Wed	4			Evolutionary genetics	Quiz10	
	Nov 24	Fri		No class				
15	Nov 27	Mon	5		Ch20, 22	DNA technology, bioethics		Hmk11
	Nov 29	Wed	6			DNA technology, bioethics	Quiz11	
	Dec 01	Fri	7	Last day		DNA technology, bioethics		
16	Dec 05	Mon						
	Dec 06	Tue		11 am – 1 pm			**Exam04**	
	Dec 07	Wed						

Week	Date	Day of week	Lecture	Note	Chapter	Topics, coverage	Quiz or Exam	Homework
	Dec 08	Thu						
	Dec 09	Fri		End of semester				

Click here for **Syllabus (https://chaminade.instructure.com/courses/28868/assignments/syllabus)**

/MD

Note: Due dates for assignments are subject to change.

Course Summary:

Date	Details	Due
Thu Aug 24, 2023	Pre-test (https://chaminade.instructure.com/courses/28868/assignments/304064)	due by 11:59pm
Fri Aug 25, 2023	Quiz - First assignment (https://chaminade.instructure.com/courses/28868/assignments/304052)	due by 11:59pm
Fri Sep 1, 2023	Homework01 (https://chaminade.instructure.com/courses/28868/assignments/295811)	due by 11:59pm
Sun Sep 3, 2023	Quiz01 (https://chaminade.instructure.com/courses/28868/assignments/295805)	due by 11:59pm
Mon Sep 4, 2023	Homework02 (https://chaminade.instructure.com/courses/28868/assignments/295812)	due by 11:59pm
Wed Sep 6, 2023	Quiz02 (https://chaminade.instructure.com/courses/28868/assignments/295796)	due by 11:59pm
Wed Sep 13, 2023	Homework03 (https://chaminade.instructure.com/courses/28868/assignments/295813)	due by 11:59pm
Sun Sep 17, 2023	Quiz03 (https://chaminade.instructure.com/courses/28868/assignments/295802)	due by 11:59pm
Mon Sep 18, 2023	Quiz04 (https://chaminade.instructure.com/courses/28868/assignments/295797)	due by 11:59pm
Wed Sep 20, 2023	Exam01 - Practice problems (https://chaminade.instructure.com/courses/28868/assignments/295809)	due by 11:59pm
Fri Sep 22, 2023	Exam01 (https://chaminade.instructure.com/courses/28868/assignments/295808)	due by 11:59pm
Fri Sep 29, 2023	Homework05 (https://chaminade.instructure.com/courses/28868/assignments/295814)	due by 11:59pm
Mon Oct 2, 2023	Quiz05 (https://chaminade.instructure.com/courses/28868/assignments/295795)	due by 11:59pm
Fri Oct 6, 2023	Homework06 (https://chaminade.instructure.com/courses/28868/assignments/295815)	due by 11:59pm
Tue Oct 10, 2023	Quiz06 (https://chaminade.instructure.com/courses/28868/assignments/295801)	due by 11:59pm

Date	Details	Due
Wed Oct 11, 2023	Reflection: Life Story movie (https://chaminade.instructure.com/courses/28868/assignments/295821)	due by 11:59pm
Mon Oct 16, 2023	Quiz07 (https://chaminade.instructure.com/courses/28868/assignments/295807)	due by 11:59pm
Fri Oct 20, 2023	Homework07 (https://chaminade.instructure.com/courses/28868/assignments/295816)	due by 11:59pm
Wed Oct 25, 2023	Exam02 (https://chaminade.instructure.com/courses/28868/assignments/295798)	due by 11am
Mon Oct 30, 2023	Homework08 (https://chaminade.instructure.com/courses/28868/assignments/295817)	due by 11:59pm
	Quiz08 (https://chaminade.instructure.com/courses/28868/assignments/295799)	due by 11:59pm
Tue Nov 14, 2023	Homework09 (https://chaminade.instructure.com/courses/28868/assignments/295818)	due by 11:59pm
Wed Nov 29, 2023	Exam03 (https://chaminade.instructure.com/courses/28868/assignments/295803)	due by 11am
Fri Dec 1, 2023	Student Course Evaluation (https://chaminade.instructure.com/calendar?event_id=32261&include_contexts=course_28868)	12am
Mon Dec 4, 2023	Student Course Evaluation (https://chaminade.instructure.com/calendar?event_id=32262&include_contexts=course_28868)	12am
	Quiz10 (https://chaminade.instructure.com/courses/28868/assignments/295806)	due by 11:59pm
Tue Dec 5, 2023	Quiz09 (https://chaminade.instructure.com/courses/28868/assignments/295800)	due by 11:59pm
Wed Dec 6, 2023	Homework10 (https://chaminade.instructure.com/courses/28868/assignments/295819)	due by 11:59pm
Fri Dec 8, 2023	Quiz11 (https://chaminade.instructure.com/courses/28868/assignments/295794)	due by 11:59pm
Wed Dec 13, 2023	Homework11 (https://chaminade.instructure.com/courses/28868/assignments/295820)	due by 11:59pm
Thu Dec 14, 2023	Exam04	due by 11:59pm

Date	Details	Due
	(https://chaminade.instructure.com/courses/28868/assignments/295804)	