

Genetics
MCB 2410 Sections – Spring 2020
Revised Syllabus – Online transition

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This is the revised syllabus transitioning our class to online learning during the recent Corona virus outbreak. All changes will initially be outlined here. As the class goes live, any additional changes to the course will be communicated by way of HuskyCT and your UConn email address.

Textbook: - **Genetics: A Conceptual Approach. Sixth Edition**, Benjamin A. Pierce.
Copyright: 2014, W.H. Freeman and Company
- ***Sapling Learning* online access is required.**

Sapling Learning URLs:

Sections 1-10:

<https://www.saplinglearning.com/ibiscms/course/view.php?id=112485>

Sections 11-12:

<https://www.saplinglearning.com/ibiscms/course/view.php?id=115938>

An online companion to the text called “Sapling Learning” is required (see below).

Lecture: We will continue having two lectures per week. I will be recording these with the PowerPoint slides and posting the videos to HuskyCT along with pdfs of the lectures as I have previously done.

Discussion: Discussion sections will ***continue meeting as scheduled*** on Thursdays and Fridays using the **Collaborate Ultra** link found HuskyCT. These live sessions will also be recorded and posted in the HuskyCT for your discussion section (see below).

HuskyCT: You should now see MCB2410 twice in your HuskyCT control panel. One is for the lecture (what was active before) and one that corresponds to the discussion section you are enrolled in. All lectures and material will be posted to the lecture HuskyCT. You will use the HuskyCT course for your discussion section to access the synchronized learning **Collaborate Ultra** to follow along with your TA during your scheduled discussion section.

Quizzes: ***The Sapling Learning platform will now have weekly quizzes.*** This will start with the missed quiz last week (3/12-3/13) on RNA transcription. These are labeled in Sapling as *****QUIZ***** followed by

the topic. These quizzes will become available on the Thursday of each week. You will have until the end of the following Wednesday to complete the quiz.

The missed quiz (Transcription and RNA processing) from last week will be due by April 1st. The quizzes will still be on material from the week before. They will be 15-25 questions long. This also means that these will be graded as is. **Your actual scores on these quizzes will be used to calculate your quiz average (no longer is 70% full credit).**

Exams: * Be sure to read the “Test Taking Guidelines on HuskyCT” *****

A pdf of these guidelines can be found in the Course Resources tab of HuskyCT.

Exams will be administered on their scheduled days through HuskyCT. The exam will be slightly longer in length than your previous exam. The exams’ length will require approximately one hour to complete. They will be available from **9:00am until 8:00pm** on the scheduled exam days. You must **complete all questions in this time**. This should be ample time for everyone to complete it.

Office Hours:

Dr. Longo: Wednesdays 1:25 on Collaborate Ultra found on HuskyCT. I will hold a live (synchronized) office hour during our regularly scheduled Wednesday lecture period. This will be an opportunity to ask me specific questions.

Teaching Assistants – Will hold their scheduled office hours at their scheduled times also on Collaborate Ultra. As these are for anyone in the class (you can attend any TA’s office hour), these sessions will be held in the Lecture version of HuskyCT. To allow the TA’s a chance to familiarize themselves with the platform, TA office hours will resume the week of March 30th.

TA Office Hours

TA name	Email	Day and time
Khalia Cain	khalia.cain@uconn.edu	Monday 11-12
Matthew Kearney	matthew.kearney@uconn.edu	Wednesday 12-1
Emily Ng	emily.ng@uconn.edu	Monday 4-5
Nidhi Vijayan	nidhi.vijayan@uconn.edu	Wednesday 11-12

Sapling Learning participation: Sapling Learning is the online component to your textbook. The Sapling activities are broken into the following categories:

- 1) ***Quiz***** - these are your weekly quizzes in place of quizzes in your discussion section (see Quiz/Homework section above).
- 2) Homework** – **There will be no additional homework.** What you have completed as homework this far will count as your homework component of your grade. A score of 70% or more is required for the activity to count.
- 3) Extra Credit** – These activities are your opportunity to do extra work and get extra credit in the course. These assignments can also be used to make-up any missed weekly Sapling homework assignments. If you miss a weekly Sapling homework you can complete **three** extra credit activities to make up the points. When calculating grades, extra credit activities will *first* be counted toward missed homework assignments and *then* bonus discussion points will be calculated. Completion of all extra credit activities (with no missed homeworks) **will add 5 points to your final discussion grade.** The number of bonus points added to your discussion grade will be proportional to the number of activities completed.

Please note – these activities have due dates (right before each exam), please plan accordingly. A score of 70% or more is required for the activity to count.

- 4) **Tutorials and Learning Curve Activities** – These are ungraded tutorials. They should be helpful as an additional resource if you are having trouble on a topic.
- 5) **Reading Quizzes** – These are ungraded chapter quizzes. They can be used to assess how well you remember the material from the text. Please note, these include all the material from each chapter and may cover topics we do not get to in class.

Honor's assignments (*Sections 11-12 only*):

The honors portion of your grade is based on **attending research seminars** and completion of the **Honors assignments on the Sapling Learning** platform.

Article Summaries: In place of attending seminars, you will need to find an article that has something to do with genetics. You are to write a ½-page to 1-page summary of the article. The article can be from any source (as long as you can upload a pdf). They can be peer-reviewed science research articles or articles found in the popular media. Research articles can be found by doing a keyword search on PubMed. A link to PubMed can be found under Course Resources tab in HuskyCT.

Upload Word Documents. Your writing will be screened for plagiarism using the Safe Assign system in HuskyCT, so please use your own words.

You will need to complete two of these summaries before the end of the semester (4/3 and 4/24).

Seminars: Seminars will no longer be required. The first two seminars (due Feb. 21st and March 6th) will still be counted. If we return to campus before the end of the semester we will still no longer require seminars.

If we were not able to attend one of the seminars before we all left campus, you can find and summarize another article in its place.

Sapling: There are seven online assignments that require you to read an article from the journal *Nature*. You then need to complete the accompanying assessment. These scores will count as scored on Sapling and will be averaged with your Seminar Sheet scores (see next section).

Grading Policies:

Final grade calculation: Each component of your final grade will be calculated ***independently***. Each of these grades will then be ***averaged*** to determine your final grade in the course.

Grading scheme:

≥93 = A	90-92 = A-	87-89 = B+	83-86 = B
80-82 = B-	77-79 = C+	73-76 = C	70-72 = C-
67-69 = D+	63-66 = D	60-62 = D-	<60 = F

The University is allowing students to choose a Pass/Fail grade instead of a letter grade until the last day of scheduled classes.

Grading: The final course grade is based on the following breakdown:

Sections 1-10:

Sapling Learning homework - 5%

<i>Discussion quiz grade</i>	- 20%
<i>Semester Exams 1-3</i>	- highest 2 of 3 exams @ 20% each - lowest of 3 exams @ 10%
<i>Cumulative Final Exam</i>	- 25%

Sections 11-12:

<i>Sapling Learning homework</i>	- 5%
<i>Honor's assignments</i>	- 5%
<i>Discussion quiz grade</i>	- 15%
<i>Semester Exams 1-3</i>	- highest 2 of 3 exams @ 20% each - lowest of 3 exams @ 10%
<i>Cumulative Final Exam</i>	- 25%

Correspondence: All students are expected to check and respond to their email on a routine basis. Students will be contacted at their UConn email address (firstname.lastname@uconn.edu). It is the student's responsibility to have UConn email forwarded to personal email accounts. The instructor is not responsible for undelivered email. Students must retain a copy of important emails sent to the instructor for documentation purposes (including date, time, and address sent to). In addition to university e-mail, HuskyCT will also be used for course announcements.

Subject to Change Statement: Information contained in the course syllabus, other than the grade policy, may be subject to change with advanced notice, as deemed appropriate by the instructor.

Academic Misconduct: All University policies regarding academic integrity apply to this course. Please read the Dean of Student's office for information regarding academic integrity and dishonesty at www.dosa.uconn.edu. Please note that cheating of any sort will not be tolerated and will be dealt with appropriately.

Final exam week for Spring 2020 takes place Monday-Saturday, May. 4-9. Students are required to be available for their exam during the registrar determined time. If you have a conflict with this time you must visit the Office of Student Services and Advocacy to discuss the possibility of rescheduling this exam. Please note that vacations, previously purchased tickets or reservations, graduations, social events, misreading the exam schedule and over-sleeping are not viable excuses for missing a final exam. If you think that your situation warrants permission to reschedule, please contact the Office of Student Services and Advocacy with any questions. Thank you in advance for your cooperation.

MCB2410		Genetics		Spring 2020		Online Transition Schedule		Notes & Dates		Quiz Available	Quiz Due
Week	Class	Day	Date	Chapter	Course Topic						
10	16	Monday	3/23/20	Ch. 18	Lecture: Gene mutations and DNA repair.						
	17	Wednesday	3/25/20	-	Live Office Hour - HuskyCT Collaborate Ultra						
		Discussion	3/26-3/27		Topic: Mutation and repair Quiz: Translation and Gene regulation.						
	18	Monday	3/30/20		*** Exam 2 - Module 2 *** (Chapters 10, 12-15,16,2, 17 and 25)						
Module 3 - Applied Genetics											
11	19	Wednesday	4/1/20	Ch. 19	Lecture: Molecular genetic techniques and technologies I.						
		Discussion	4/2-4/3		Topic: Molecular genetics techniques. Quiz: Gene Mutation.						
12	20	Monday	4/6/20	Ch. 19	Lecture: Molecular genetic techniques and technologies II.						
	21	Wednesday	4/8/20	Ch. 20	Lecture: Genomics I. Topic: Molecular genetics techniques. Quiz: Molecular Genetics.						
13	22	Monday	4/13/20	Ch. 20	Lecture: Genomics II.						
	23	Wednesday	4/15/20	Ch. 23	Lecture: Cancer genetics. Topic: Genomics and Cancer Quiz: Genomics.						
14	24	Monday	4/20/20	Ch. 24	Lecture: Quantitative genetics.						
	25	Wednesday	4/22/20	Ch. 26	Lecture: Evolutionary and Quantitative genetics. Topic: Evolutionary and Quantitative genetics. Quiz: Cancer genetics.						
15	26	Monday	4/27/20	-	Live Office Hour - HuskyCT Collaborate Ultra						
	27	Wednesday	4/29/20	-	*** Exam 3 - Module 3 *** (Chapters 18-20, 23-24 and 26) Topic: Final synthesis. Quiz: Quantitative and Evolutionary genetics.						
16	-	Monday	5/4/20		Final times will be announced on the Registrar's website:						
		Wednesday	5/6/20								
		Friday	5/8/20		http://registrar.uconn.edu/exams/						

*** Final's week ***

HONORS: Nature Article 7
Quant. Gen. Oil Biosynth - 5/1

HONORS: Article Summary Due
Upload to HuskyCT 4/24

HONORS: Nature Article 6
Finding genes 4/17

HONORS: Article summary Due
upload to HuskyCT 4/10

HONORS: Nature Article 5
from GLOFish to... 4/3

HONORS: Nature Article 4
Mouse models of cancer - 3/27