

**Biol 211G, Cellular and Organismal Biology
NMSU Biology Department, Spring 2012**

General Information

Lectures

Tuesdays and Thursdays, Hardman Hall Rm. 208
11:45 am -1:00 PM

Instructor

Dr. Immo A. Hansen
Office: Foster Hall Rm. 263

Phone: 646-7719 (**but the best way to reach me is by blackboard e-mail**)

e-mail: through our Blackboard Biol 211G site (see URL below). Just click on the Email option, then compose a message- you can use the "browse" button to find my name and select it. This mail is completely contained within the Blackboard site, so please check there for replies to your messages (*i.e.* messages will not get sent to your nmsu or other e-mail account, unless you set a forwarding option within Blackboard).

Office Hours

I will be in my office (Foster Hall, Rm. 263) at the following times to answer any questions that you have, to go over your answers to the review questions, and help make sure you truly understand the course material. There may be occasional days on which I will be stuck with an unavoidable conflict with office hours, and I will let you know in advance if I am unable to be at my office hours on a given day. But I will do everything I can to keep office hours reserved for YOU!

Tuesdays and Thursdays 1:30-2:30PM

Or by appointment- please send me a Blackboard e-mail to set up a meeting.

Bio Help Desk

The BioCats will run a Bio Help Desk in Foster Hall, Rm. 144. You can go to the Bio Help Desk to go over your answers to review questions, practice additional activities/problems to test your understanding, and pick up your graded in-class activities. The Bio Help Desk hours are TBA, keep an eye on Blackboard for the Bio Help Desk Schedule.

Text

Principles of Life, by Hillis, Sadava, Heller and Price.

Supplies

5 NMSU test score sheets = Scantrons (available at the campus bookstore) and a No. 2 pencil are required for the exams. You will be asked to show a photo ID when you hand in your test score sheet at each exam. Please purchase the full-page size blue and white test score sheet with 184 question lines (92 on each side) and which is labeled "New Mexico State University Test Score Sheet" on the top.

An i>clicker Radio Frequency (RF) Student Response Pad ("clicker") (available at the campus bookstore- see picture below) (REQUIRED). You will need to REGISTER your i>clicker for Biol 211G in Blackboard (see the file that includes the instructions for clicker registration). Note that there is **no charge** for this registration.



Figure 1: i>clicker

Course Website

The course website will be maintained through Blackboard, which can be accessed at

<https://learn.nmsu.edu/webct/entryPageInsdowebct>

You need an NMSU Global LoginID (your NMSU username) and Password to access your individual "My Blackboard", which is where you will find the link to our Biol 211G site. If you do not already have an NMSU Global LoginID and password, you can obtain one online through the my.nmsu system. Once you have your login ID and password, you can access the course website. PLEASE obtain your ID and password IMMEDIATELY (and remember what they are!), so that you can contact me via the Blackboard course email, as well as access lecture outlines, exam keys, additional review questions, assignments and your scores on exams and assignments. You will also use your NMSU Global LoginID to register your i>clicker.

Biology 211 Lecture and Lab

If you are registered in the lecture (Biol 211G), you will earn a lecture grade for the 3-credit lecture course. If you are currently enrolled in the lab, Biol 211GL, it is an independent course for which you must complete assignments (and for which you will receive a separate and independent grade). Dr. Marion is the laboratory coordinator for Biol 211GL this semester. You can contact Dr. Marion by e-mail at amarion@nmsu.edu.

Course Objectives

The overall goal of this 3 credit lecture course is to help students acquire and retain relevant biological knowledge and information for their future coursework and careers, have students apply this knowledge to design solutions to problems using scientific methodology and to foster a continuing and self-sustaining interest in the life sciences. This course also satisfies the general education requirement for laboratory science, when taken in combination with the 1-credit laboratory section.

If you do not plan on continuing in the sciences, you may wish to consider taking Biol 101G (Human Biology) and Biol 101GL (the Human Biology laboratory course), which will meet the Laboratory Sciences component of NMSU's General Education program. If you have any questions about which is the right course for you, please see me &/or your academic advisor.

Co-requisite

Successful completion of, or concurrent registration in, CHEM 110G or CHEM 111.

New Mexico General Education Common Core

This course also addresses the State of New Mexico General Education Common Core Competencies in Area III: Laboratory Sciences. As mandated by the State, these are as follows:

- Ⓢ Describe the process of scientific inquiry
- Ⓢ Solve problems scientifically
- Ⓢ Communicate scientific information
- Ⓢ Apply quantitative analysis to scientific problems
- Ⓢ Apply scientific thinking to real world problems

Important "Administrative" Dates

In addition to the dates on the course schedule, and dates announced in class (for which you are responsible), you should be aware of the following dates:

- Ⓢ Deadline for Registration/Course Addition: January 30th (although if you wait until this date to register you will be at a substantial disadvantage and will be playing a significant amount of catch-up)
- Ⓢ Last Day to Drop with a "W": March 12th.
- Ⓢ Last Day to Withdraw from the University: April 20th.

Grades and Grading

Evaluation

In-class Exams: There will be four in-class exams each of which will have 50 multiple-choice questions. Each in-class exam will be worth 50 points. Exams will require that you synthesize material and apply all the course material to solve problems. The dates of the in-class exams are **2/9, 3/6, 4/3, 5/3**.

Final Exam: There will be a final exam on **TUESDAY 5/8**. The final exam is **MANDATORY**, and will be worth 50 points.

Class Participation: Up to 30 points of your final grade can be earned based on in-class participation using your clicker. Participation points will begin to be earned starting on **TUESDAY, 1/31** (this gives you until this date to purchase and start using your clicker). The way that clicker points are earned is described in a subsequent section of this syllabus.

In-Class Activities & Assignments: There will be six in-class activities with assignments. Many of these assignments will comprise **both** an individual (out-of-class) component and a group (in-class) component. Specific instructions for each assignment will be provided & discussed in class in a timely fashion. Please do not hesitate to contact me, your TA or a BioCat at the Bio Help Desk if you have any questions about the assignments as you are working on them.

Grading

Your final class grade will be determined based on the contribution of different components, as set forth below (for a total of 305 points):

- Ⓢ 150 of the course points will be based on your best three in-class exams (50 pts each)
- Ⓢ 50 of the course points will be based on your final exam
- Ⓢ 75 of the course points will be based on your 5 best in-class activities
- Ⓢ 30 of the course points will be based on class participation (clicker points)

Grading Scale

The grading scale is as follows (based on the 305 points noted above):

<u>Grade</u>	<u>Points</u>
A+	≥295
A	274-294.99
B+	265-273.99
B	244-264.99
C+	234-243.99
C	213-233.99
D+	204-212.99
D	183-203.99
F	≤ 182.99

Please note that there will be **NO ROUNDING** of scores with respect to grades. In order to be fair to all students in the course, the grading scale set forth above will be strictly followed.

Grading Errors

It is your responsibility to check your exam, assignment and any other scores as they are posted on the course website. If you have a question about a specific score, please let me know **within one week** of its posting, so that any questions can be promptly resolved. After one week, there is no guarantee that any action can be taken. If you leave questions about a particular score until finals week, it may well be too late for me to take any action.

Exams

Exam Policies

Remember to bring a test score sheet, a No. 2 pencil and photo ID to every exam. Your ID, exam and score sheet will be checked and you will be asked to initial your attendance at the exam beside your name on a class roster when you hand in your answer sheet. Exams are individual efforts- keep your eyes on your own work, and keep your exam and answers covered as much as possible as you work (please note that the student code of conduct considers "cheating or knowingly assisting another student in committing an act of cheating" [Section III.B.1] to be one form of academic misconduct). All cell phones, beepers and other electronic devices must be turned off and placed in a closed bag or under your seat during exams. You will not need (or be allowed to consult) any books or calculators during the exams, and you are asked to leave your notes and books closed and under your chair during the exam. All baseball caps must be removed or turned backwards during the exams. You will be asked to leave as much space between one another as possible during the exams, and you are reminded to review the Student Code of Conduct (<http://www.nmsu.edu/%7Evpsa/SCOC/misconduct.html>). In particular, please consult section III.B and III.C of the Student Code of Conduct. Please also see the section on Academic Honesty below. Students who are found to be cheating on an exam will receive a minimum of an automatic zero for that exam (as a first offence) and the Instructor reserves the right to consider more severe penalties, especially for repeat incidences. Such penalties include automatic failure (*i.e.* an automatic grade of F) of the course, and referral to the course Dean and Student Judicial Affairs. Please do not risk your GPA and your academic career over an exam in this course, it is not worth it!!!

Missed In-Class Exams

You are **STRONGLY** encouraged to study for and take all four in-class exams. If you take all four in-class exams, then your lowest score will be dropped and your three highest scores will count towards the 150 points from in-class exams. If you miss an in-class exam for **ANY** reason (with the exception of official university business or a doctor's notice, see below) then you will earn a zero (0) for the missed exam. **THERE ARE NO MAKE-UP IN-CLASS EXAMS.** The zero that you earn for the missed exam will presumably represent your lowest in-class exam score, and will be dropped (*i.e.* it will not be one of the three best in-class exam scores contributing to the 150 points of your final grade earned on in-class exams, and your remaining three in-class exam scores will be used to calculate the points earned on in-class exams). If you miss **ANOTHER** in-class exam for **ANY** reason (with the exception of official university business, or doctor's notice) then you will earn a second zero (0) for the second missed exam. Please note that it will be very difficult to succeed in this class with two missed in-class exams (*i.e.* two zeros on in-class exams), as one of your three best in-class exam scores will be a zero (and will count towards the contribution from in-class exams). Similarly, if you decide that you don't really need to study for the first exam, it is likely that you will do very poorly on the first exam. Let's say that you then do well on exam 2 and exam 3, but are sick for exam 4 and cannot take it. Your lowest score will be the zero (0) on the missed exam 4, meaning that the poor score on exam 1 will now count as one of your three-best in-class exams. The take-home message: **PLEASE STUDY HARD AND TAKE EVERY IN-CLASS EXAM!** Note that it is very difficult to anticipate every possible situation that may arise, so please contact me immediately if an exceptional situation arises.

Official University Business and Missed Exams: Students who must miss an exam to participate in an official University function are asked to bring me (Dr. Hansen) the specific event documentation to at least two weeks in advance and make the necessary arrangements to take the exam early (*i.e.* before your departure). Note that handing me a travel schedule at the start of the semester is **NOT** a substitute for bringing me the documentation for each absence, prior to that absence. It is your responsibility to personally communicate with me for every excused absence, well in advance of your departure. Failure to schedule an alternative (early) exam time prior to your departure will result in your earning a ZERO for the missed exam. Similarly, waiting until the last moment to try and schedule an alternate exam time with less than 72

hours notice will be considered equivalent to failing to schedule an alternative exam time (and will result in a ZERO for that exam).

Makeup exams may be written or oral.

Doctor's notice: In case that you get sick and cannot attend an exam, you have the responsibility to make me notice as soon as you can of your future absence and make arrangements to take the exam. You will need to bring a doctor's note stating the reason to miss the exam the scheduled day.

Final Exam: You **MUST** take the final exam as scheduled (*i.e.* the final exam is not an optional exam, and the points earned on the final exam will contribute to your total course points-the final exam cannot be "dropped"). If an emergency results in your missing the final exam, you must contact me with written documentation immediately (for example physician documentation of serious illness), and I must be able to verify the information. If you are making passing progress (*i.e.* an overall grade of C (70%) or better in the course) prior to the emergency, then you will be assigned an Incomplete (I). You will have to sign an I Grade Information Form stating that you will take a make-up final in order to complete the course, and that failure to complete the make-up final within one year will result in the assignment of a replacement grade (*i.e.* to replace the I) based on the zero for the missed final. If you are not making passing progress (*i.e.* do not have an overall grade of C or better in the course) then you are not eligible for an Incomplete and will receive a zero for the missed final, and this score will be used to calculate your final course grade. Complete information regarding I grades can be found in the Undergraduate Catalogue (in the Regulations section). Please note that the final exam date and time was set last semester by the university (before registration for the current semester), and that travel plans, for example to return home, vacation or start seasonal employment do **NOT** constitute unanticipated or unavoidable emergencies. Please schedule (or re-schedule) any travel plans so that you are here to take the final as scheduled by the university.

Assignments: **You must be in class to complete all aspects of the in-class assignments.** Students with documented University Business must contact me to make an arrangement to make up a missed in-class assignment within one week of the missed assignment. Students with documented unavoidable, unanticipated, serious situations may make up **ONE** in-class assignment (but only one make-up will be allowed for the semester). You must bring me the documentation and make the arrangement to make-up the assignment within one week of the missed assignment. Any other missed in-class activities and assignments will receive a zero.

Assignments are due by the end of class on their scheduled due dates. Due to logistical constraints, I cannot accept late assignments. If you wish to have your assignments graded, you must turn them in by the end of the class period on the day that they are due. **NO LATE ASSIGNMENTS WILL BE ACCEPTED.**

However, your best five out of the six in-class assignments will count towards your assignment points. That is, your lowest assignment score will be dropped. So missing one assignment or turning one in late will not affect your assignment points, as that zero will presumably be your lowest score, and will be dropped.

Clickers and Clicker Points

Participation/Clicker Points

As noted above, you can earn up to 30 points for class participation by using your OWN clicker to answer in-class questions. Please refer to the Academic Honesty section below for further information regarding class participation points. Briefly, any student(s) who allow(s) other student(s) to earn participation points without actually being in class to earn them themselves will be penalized by (at a minimum) a loss of all participation points, as will the students who allowed their clicker to be used by another students on their behalf. The Instructor reserves the right to consider more severe penalties, similar or identical to those outlined in the Exam Policies section.

There will be MANY in-class clicker questions during the semester (but there will be **NO CLICKER MAKE-UPS**-see below for more information). For each question that you answer correctly, you will earn one "daily

point". In addition if you answer 75% of all questions asked during one class session (it does not matter if your answers were right or wrong) you will receive five additional "participation points". There are no points available for unanswered questions. Your final % of clicker points will be based on the proportion of points you earn, based on the total number of possible clicker points. You are encouraged to attend all lectures and answer all questions to the best of your ability. Not only will you maximize your clicker points, but, given that many of the clicker questions may reappear (at least in a closely related form) on in-class exams, you will get practice with exam material. Remember, **with the exception of University Business**, there are **NO CLICKER MAKE-UPS** (see below for more information).

Important Points About the "Clickers"

- Ⓢ You are responsible for having and REGISTERING an i>clicker for this class (check Blackboard for clicker registration instructions)
- Ⓢ You are responsible for making sure that your clicker is working in this class
- Ⓢ If you experience problems using your clicker, it is **your responsibility** to contact i>clicker immediately. If the problem is not resolved within two days, please let me know so that I can also contact i>clicker.
- Ⓢ With the exception of Official University Business, there will be NO CLICKER MAKEUPS (so please remember to bring your clicker to class everyday). This is consistent with the University policy regarding attendance, which states that "*Students are expected to attend regularly all classes for which they are registered*". However, I will add one week's (two lectures) worth of clicker points to everyone's clicker points at the end of the semester (*i.e.* missing up to one week of lecture will not affect your total possible clicker points).
- Ⓢ Clicker points are earned by bringing and using your OWN clicker in each class meeting. Having another student use your clicker while you are absent is cheating, and both/all students involved will be disciplined and their academic misconduct reported to their respective department heads.
- Ⓢ **If you are absent for Official University Business**, then please print out the clicker questions for the day you missed (from the posted review questions on Blackboard), answer them on the hard copy print-out, staple your official university excuse (with your name on it) to your answers, and hand it in to me for credit. This must be done within ONE WEEK of your return, or else there is no guarantee that I can give you credit for the missed work (regardless of an official university excuse). It is up to you to make-up your clicker questions in a timely fashion (within one week, as outlined herein).

Academic Honesty

All students are required to maintain the highest standards of academic honesty and conduct- these are the same high standards that will be expected of you in your future academic and professional careers. The student code of conduct outlines many of these expectations, and may be found at (<http://www.nmsu.edu/%7Evpsa/SCOC/misconduct.html>). Cheating and academic misconduct in any form will NOT be tolerated (see the penalties described in the Exam Policies section and noted at the end of this section). The student code of conduct outlines various forms of academic misconduct in section III.B. Cheating includes, but is not limited to possession and/or use of unauthorized materials during exams; copying the work of another (*e.g.* another student, instructor or other reference source); using the words or ideas of another (*e.g.* another student, instructor or other reference source), especially without proper acknowledgement and citation (but keep in mind that citing a source DOES NOT allow you to use their words and/or organization and/or structure if these are copied directly or substantially copied); providing another student the opportunity to copy your work on exams or assignment, looking at the work of another student during exams and quizzes and providing another student the opportunity to earn participation (clicker) points when they are not in class to earn them themselves (in which case both/all students involved will be considered to have engaged in academic dishonesty, and both/all will, at a minimum, lose all of the participation (clicker) points).

An additional note about plagiarism:

Be aware of plagiarism. Do not hand in an assignment that has any form of plagiarism (intentional or unintentional). Not only must you credit your source(s) for any ideas that are not your own, but you **MUST** paraphrase in YOUR OWN WORDS. Changing the occasional word in a sentence does not constitute expression of the idea in your own words (*i.e.* if you submit an assignment in which you have merely changed a few words from a source, &/or have retained the structure and organization of your source, then you have submitted a plagiarized assignment, even if you have cited that source). Again, **two key points** are (i) to cite your sources (for ideas) and (ii) to paraphrase or summarize in your own words. This is particularly important in the sciences, as we do not typically rely on "quotations". If you are unsure of anything in this regard, please come and talk to me about any concerns. You may also find some of the following websites helpful, and I encourage you to consult them for guidelines and examples dealing with this issue:

Section III.B.2 of the NMSU Student Code of Conduct

<http://www.nmsu.edu/%7Evpsa/SCOC/misconduct.html> (note that this section addresses BOTH unintentional and intentional acts of plagiarism)

<http://www.indiana.edu/~wts/pamphlets/plagiarism.shtml>

<http://www.indiana.edu/~istd/overview.html>

<http://lib.nmsu.edu/plagiarism/>

To be clear (if somewhat redundant): Even with a citation, failure to put quotation marks around direct quotations constitutes plagiarism, because it implies that the writing is your own. Material should be paraphrased and cited. Note that replacing words with synonyms, changing verb tense or other minor alterations do not qualify as paraphrasing.

ANY act of plagiarism (unintentional or intentional) will result in a MINIMUM of a zero for the first offense, and additional penalties will be considered, especially for repeat offenses. Such penalties include loss of ALL POINTS for ALL class/workshop assignments (*i.e.* a loss of all the possible assignment/workshop points), and more severe penalties (including but not limited to automatic failure of the course and referral to the course Dean) are also possible.

ADA and SSD

ADA

Feel free to call Jerry Nevarez, Director of Institutional Equity, at 575-646-3635 with any questions you may have about NMSU's Non-Discrimination Policy and complaints of discrimination, including sexual harassment.

Feel free to call Diana Quintana, Coordinator of Services for Students with Disabilities, at 575.646.6840 (voice) or 575-646-1918 (TTY/TDD for those who are deaf) with any questions you may have on student issues related to the Americans with Disabilities Act (ADA) and/or Section 504 of the Rehabilitation Act of 1973. All medical information will be treated confidentially.

Attendance, Consideration, Studying & the Disclaimer

Attendance

Formal attendance will not be taken during lectures. However, it is strongly recommended that you attend and participate in all lectures, as this is your opportunity to earn class participation points and to get the most out of the class. Note also the University expectation regarding attendance, found in the current Undergraduate Catalog: "Students are expected to attend regularly all classes for which they are registered". You are responsible for all the material (including announcements of schedule or other syllabus changes and any announcements regarding the assignments) presented in lecture. If you do miss a lecture, please be sure to obtain lecture notes from another student, review the reference materials and then, once you have completed this review process, contact me if you have any remaining questions.

Dropping the Course

Your instructor will not automatically drop students for poor performance or attendance. It is your responsibility to do so (by completing the necessary paperwork) prior to the deadline to drop with a "W".

Consideration

Please be considerate of your classmates and the general environment while in the lecture room. This includes turning off (or using a silent mode ONLY in the case that you may need to be contacted in an emergency) cell phones. **WHILE TEXT MESSAGING ON YOUR CELL PHONE IS NOT TECHNICALLY ALL THAT NOISY, IT IS INCREDIBLY DISTRACTING TO THOSE AROUND YOU, AND TO YOUR INSTRUCTOR, SO PLEASE DO NOT ENGAGE IN THIS ACTIVITY.** Dogs (with the exception of aide dogs), bikes and roller blades are not allowed in the lecture room, for safety considerations. Please keep in mind that conversations with classmates (even whispered ones) can interfere with the ability of others to hear and follow the lecture. If you have a question during the lecture, please feel free to ask me (and chances are that many of your fellow classmates will also appreciate the clarification). If you know you need to leave early, please try to select a seat near an exit.

Study Strategy

This course covers a good amount of material. You are responsible for the lecture material as well the reading and in-class assignments. It is not always possible for your instructor to cover every topic in great depth, thus you will need to use the reference materials to develop your OWN thorough understanding of the course material. Use the lectures as a guide for your reading, and use the text to help you understand the material that we cover together in lecture. Often the figures in the text are helpful in this regard, as they summarize a great deal of information. The in-class activities are intended to enhance your critical thinking skills and your understanding of the course material, so take the time to do your best work on these assignments.

It is highly recommended that you review your lecture notes as soon after each lecture as possible. Use this time to supplement your lecture notes with additional helpful information from the reference material. To be sure that you understand the material, complete the additional review questions posted on the course website. You will best test your understanding by trying to do these questions as if they were actual exam questions (i.e. by doing them with your notes and books closed). Form study groups (help each other learn). Draw your own diagrams or flow charts, make your own tables etc. Come to office hours to ask any questions and clarify any information. Visit the Bio Help Desk to ask any questions and clarify any information. We are all happy to help!

Disclaimer

The instructor reserves the right to modify the course schedule or other aspects of the syllabus during the semester as considered necessary to achieve course objectives. Any necessary changes to the syllabus (or to the course schedule) will be announced in class and you are responsible for being aware of them.

Important Course Notes:

- You may earn up to ten EXTRA CREDIT points for visits to the Bio Help Desk during the semester (1 point per visit). *In order to earn the extra credit points, your visit must be recorded by the BioCat on duty in the helpdesk log book.*
- Keep in mind that students who attend Bio Help Desk on a regular basis tend to have a much higher pass rate compared to students who never visited Bio Help Desk.
- When you visit Bio Help Desk, be sure to have your answers to the review questions written out and ready to discuss with the BioCats, or be sure to have **very specific questions** for the BioCats, and expect them to ask you lots of questions to test your understanding. The Bio Help Desk is a place for you to **work** on Biol 211 course material with both BioCats and other Biol 211 students- that is the best way we know to help you really master the material (so please keep in mind that it is not the "free answer desk").
- You may also view your graded in-class assignments at the Bio Help Desk. We will strive to have them ready for review one week after the activity is completed.

Biol 211G, Cellular & Organismal Biology
Course Schedule, Spring 2012

Date	Topic	Readings & Other Notes <i>(These topics are subject to changes)</i>
1/19	Lecture 1: Intro to the Course Scientific Process	Syllabus (Also posted on BLACKBOARD) Chapter 1: 1.1-1.5
1/24	Lecture 2: Atoms & Macromolecules	Chapter 2 : 2.1-2.5
1/26	Lecture 3: Macromolecules (cont)	Chapter 3: 3.1-3.4
1/31	1st In-Class Activity <small>Scientific Method</small>	Prep Assignment on BLACKBOARD
2/2	Lecture 4: Cells	Chapter 4: 4.1-4.5
2/7	2nd In-Class Activity <small>Drugs & Enzymes</small>	Prep Assignment on BLACKBOARD
2/9	EXAM 1	Includes all material covered to date
2/14	Lecture 5: Cell Membranes	Chapter 5: 5.1
2/16	Lecture 6: Passive & Active Transport	Chapter 5: 5.2-5.4
2/21	3rd In-Class Activity <small>Osmosis</small>	Prep Assignment on BLACKBOARD
1/23	Lecture 7: Cell Communication & Signal Transduction	Chapter 5: 5.5-5.6
2/28	Lecture 8: Hormones	Chapter 30: 30.1-30.4
3/1	4th In-Class Activity <small>Diuresis & Hormones</small>	Prep Assignment on BLACKBOARD
3/6	EXAM 2	Includes all material after exam
3/8	Lecture 9: Cell Cycle, Regulation and Checkpoints	Chapter 7
3/13	Lecture 10: Inheritance, Genes, and Chromosomes	Chapter 8
3/15	Lecture 11: DNA Structure & Genetic Code	Chapter 9
3/20-22	Spring Break	
3/27	Lecture 12: Gene Expression Overview & Transcription	Chapter 10: 10.1-10.2
3/29	Lecture 13: Translation, Mutations & Protein Function	Chapter 9: 9.3 Chapter 10: 10.3-10.5
4/3	5th In-Class Activity <small>Bacteria/Squid/Mutations</small>	Prep Assignment on BLACKBOARD
4/5	EXAM 3	Includes all material after exam 2
4/10	Lecture 14: Nutrition, Energy and Digestive Physiology	Chapter 39: 39.1-39.4
4/12	Lecture 15: Oxygen Transport Lecture	Chapter 38: 38.1-38.5
4/17	Lecture 16: Cellular Respiration	Chapter 6: 6.1
4/19	Lecture 17: Cellular Respiration (cont)	Chapter 6: 6.2
4/24	Lecture 18: Cellular Respiration(cont)	Chapter 6: 6.3
4/26	6th In-Class Activity <small>Firefighters</small>	Prep Assignment on BLACKBOARD
5/1	Lecture 19: Photosynthesis	Chapter 6: 6.5; 6.6
5/3	EXAM 4	Includes all material after Exam 3
Tues 5/8	BIOL 211G FINAL EXAM (5) Sec. M01 10:30 a.m. 12:30p.m	Includes EVERYTHING
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