

Peterson 108 (A)  
T/Th 8:00 AM - 9:20 AM

Peterson 108 (B)  
T/Th 2:00 PM - 3:20 PM

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(or by appointment)

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**Organismic and Evolutionary Biology (BILD 3)  
Fall 2009 Tentative Lecture Schedule**

<u>Date</u>	<u>Lecture Topic</u>	<u>Required reading</u>
Sept. <u>24</u>	Introduction	
<u>29</u>	History of evolutionary thought	Ch. 22
Oct. <u>1</u>	Evidence of evolution	Ch. 22
<u>6</u>	Natural selection	Ch. 23
<u>8</u>	Natural selection	Ch. 23
<u>13</u>	Population genetics	Ch. 23
<u>15</u>	Phylogenetic trees	Ch. 26
<u>20</u>	Speciation	Ch. 24
<u>22</u>	Behavioral ecology	Ch. 51
<u>27</u>	Behavioral ecology	Ch. 51
<u>28</u>	<b>MIDTERM (Wed. 8 PM - 9:20 PM) various rooms</b>	
<u>29</u>	Population ecology	Ch. 53
Nov. <u>3</u>	Population Ecology	Ch. 53
<u>5</u>	Community Ecology	Ch. 54
<u>10</u>	Community Ecology	Ch. 54
<u>12</u>	Ecosystems	Ch. 55
<u>17</u>	Ecosystems	Ch. 55
<u>19</u>	Conservation	Ch. 56
<u>24</u>	Origin & history of life	Ch. 25
<u>26</u>	<b>Holiday no lecture</b>	
Dec. <u>1</u>	Evolution and Human Health	To be announced
<u>3</u>	Biodiversity	To be announced

**Final exams**

**8 AM lecture: Tuesday December 8, 8:00-11:00 AM**

**2 PM lecture: Thursday December 10, 3:00 PM-6:00 PM**

**Course description:** This lower division course deals with the living world at the levels of whole organisms, populations, communities, and ecosystems. It is designed to introduce students to the history and diversity of life on earth and the fields of evolution, systematics, ecology, and behavior. A major focus of the course will be the processes, both biotic and abiotic, evolutionary and ecological, that have shaped life on earth. Knowledge of these processes is essential for understanding biology in general, and provides the tools for good stewardship of the earth's biota into the future.

**Reading:** The course text is Biology, 8<sup>th</sup> edition, by Neil Campbell and Jane Reece. All the readings are required and will be covered on exams and quizzes. There are copies of the text on reserve at the Science and Engineering Library.

**Can I use an old edition of the text?** That is up to you. I will only use the 8<sup>th</sup> edition. Previous editions are very similar, but not identical. If you already own an older edition, my suggestion is that you compare your copy to the 8<sup>th</sup> edition on reserve, and decide if the editions are similar enough for you to live with. Again, the material you are responsible for is the 8<sup>th</sup> edition.

**Clickers:** We will be using i>clickers in this course. They are white with grey buttons. Other types of clickers will not work.

During lecture, I will ask questions that you will respond to with your clickers. The point of the system is to encourage more interaction between students and between the students and the instructor, despite the fact that there are 400+ of us in this lecture hall. The clickers will give you feedback on your comprehension and will give me feedback on my teaching.

We will go over the use of clickers Tuesday, September 29. Please bring your clickers to class that day and every subsequent lecture. They are not needed during exams, nor will you use your clicker for homework or discussion section.

Please read the instructions below BEFORE you register your i>clickers.

Every student in this course must have their own clicker.

For the first two weeks of class, we will be practicing with the clickers - the points will not count. This is a great opportunity to make sure you know how to use your clicker and your clicker is working properly. For these first two weeks I will post the points on WebCT so you can check. If you have any problems with your clicker during these 1<sup>st</sup> two weeks, I will do whatever I can to help you. The clicker technology is not perfect- there are occasionally technical difficulties. So use these first two weeks to make your clicker work for you.

Starting October 13 you will receive points for answering clicker questions in lecture. I will assume your clickers are working properly by this time.

**Contact:** The best way to contact me is by email (hhenter@ucsd.edu). On all emails PLEASE put BILD 3 in the subject line to indicate that the email pertains to this course. I get a lot of spam and delete messages with no recognizable subject or name. Also, if you email a question before an exam

please send it well enough in advance that I am sure to see it. If you email me about anything regarding your status in the course, **please include your lecture time, UCSD username, and PID.**

**Wait list:** If you are on the wait list for this class you will be automatically added if space becomes available. The Division of Biology has a strict policy of 1<sup>st</sup>, on, 1<sup>st</sup> off the wait list, meaning that no student can jump ahead of others in the queue. If you have any concerns, please contact Biology Student Affairs at 858-534-0557 or email [question@biology.ucsd.edu](mailto:question@biology.ucsd.edu).

**WebCT:** Course materials will be available on WebCT (<http://webct.ucsd.edu>). If you are registered for the course (or if you are on the wait list) you should have access to the course web site now. Instruction on how to access WebCT can be found at: <http://iwdc.ucsd.edu/password.shtml>.

Concurrent enrollment (Extension) students are not added automatically. Extension students can bring proof of enrollment to the ACS Help Desk (AP&M 1313, M-F, 8-4:30) to obtain WebCT access.

**What will be on WebCT?** PDFs of all the lecture slides (6 per page) will be available within 24 hours after lecture. I will occasionally post announcements. Your TAs will post your grades. If your WebCT grade is incorrect, please contact your TA. Final course grades are not on WebCT.

Beware - the PDFs take a LONG time to download, especially on wireless connections, and if you interrupt the downloading process in any way you will get an error message. If this happens, a) download from a computer that has a hardwire connection, and b) try the download again and do not even touch your computer until the download is finished. If both these strategies fail, please Xerox the PDFs from a friend. I cannot email lecture PDFs to individual students.

**How to do well in this class:** Here is what I would do if I were a student: 1) go to lecture and take notes, 2) use an outline format, don't try and write down every word, 3) go over the on-line PDFs within the next 24 hours and fill in any details that were missed in lecture. My recommendation is that you rely more on your own good notes rather than the PDFs (use them as a reference only). It is too easy to just stare at the PDFs without really digesting the material. If you force yourself to write your own notes, however, you force yourself to summarize, organize, and restate things in your own words. That is a more efficient path to understanding than rote memorization. Another tactic is to use a friend (imaginary or real) and try to explain topics. Imagine you are next year's TA. If you can't explain something, you have not mastered the concept. Many students find it helpful to read the text before lecture.

Bring any questions to discussion section, contact your TA through email or his/her office hours, email me, or come to my office hours. Email questions are most convenient for everyone, but office hours are the best place to ask complex questions - you will get a much more thorough answer. Don't wait till the last minute. You should have a clear understanding of all the examples - why was each example important? Use the text to reinforce concepts discussed in lecture. Anything in the text is fair game for exams, but the lecture material will be emphasized.

**Need a particular grade?** The time to insure that you get the grade you need is NOW, not after the quarter is over. After the quarter is over, the university does not allow grade changes for any

reason other than errors in grading. If you need a particular grade, follow the advice above, and take advantage of all office hours, super office hours, and discussion sections to ask questions. Make sure you understand the material BEFORE the exams. Again, grade changes after the quarter is over are strictly prohibited by the university, for any reason other than grading errors.

**Problems?** If you have serious medical or personal problems during the quarter, the university does allow medical withdrawals. You need to contact the Biology Student Affairs at 858-534-0557 or email [question@biology.ucsd.edu](mailto:question@biology.ucsd.edu).

**Academic Integrity:** Students are expected to do their own work, as outlined in the UCSD Policy on Academic Integrity published in the UCSD General Catalog. Cheating will not be tolerated and all suspected cases will be handed over to the Academic Integrity Coordinator, which reports directly to the Dean of the student's college.

**Exams:** The exams will cover all the material from lecture, reading, and discussion section.

The midterm will be given outside of class time - Wednesday October 28, 8 PM - 9:20 PM. The rooms will be announced later in the quarter. The midterm time was listed in the schedule of classes, thus it is your responsibility to be available at this time. There will be no make-ups for conflicts with other courses, work obligations, etc.

The midterm will cover whatever material we have discussed in discussion section, lecture (and associated reading) up through and including Tuesday October 27. The final will be cumulative. Approximately half of the final will be on the material from the second half of the course, and half of the final will be cumulative - from the entire quarter.

Please be on time for exams. Our exams are free response and may be long. Students in the 8 AM lecture, please note that the final is also at 8 AM. Please set MORE THAN ONE alarm clock. Or have a reliable person - friend, neighbor, your mother - call you as a back up alarm clock. I do not give make-ups for students that sleep through an exam.

During exams (midterm and final) all backpacks, water bottles, hats, etc. will have to be left in the front of the room. **If you are concerned about valuables, please do not bring them to the exam.** You will not be allowed to use calculators, cell phones, or any electronic devices during the exam. **We do check picture ids at the exam**, so please bring yours with you (a student ID or driver's license is acceptable).

**You must take exams in the lecture time for which you are enrolled.** We will compare IDs to a course roster.

Know your discussion section date/time/TA name when you come to the exam. You will lose 5 points if this information is not correct on the exam. You can check your discussion section enrollment at <http://sections.ucsd.edu/>. If you have any confusion about the day/time/TA name for your discussion section, please clear up the confusion BEFORE the exam.

**Super office hours:** The TAs will collectively host extra office hours the last school day before each exam. The schedule is:

Wednesday October 28: 12 noon - 5 PM, 1103 Muir Biology Building

Friday December 4: 12 noon - 5 PM, Pacific Hall 3500

**Make up exams:** Make-ups will be given to students with a documented reason for their absence. A doctor's note for an illness or a tow-truck receipt for car problems are examples of appropriate documentation.

If you have a pre-existing reason for a make-up (your sister's wedding, UCSD varsity sports travel, pre-arranged surgery, etc.) I need to see in writing: a) documentation of your conflict, b) which exam you will miss, and c) your email address. To ensure that you can take a make up at a time that is convenient for you, please get this information to me asap.

I do not give make-up final exams for students that have too many midterms or finals in one day. Most faculty have their exam schedule on their syllabus - if they don't, ask. And the finals schedule is available online now - please check yours TODAY. If it is too crammed, you may want to drop or change a class.

I do not give make-up exams to accommodate vacation plans.

**OSD students:** If you need testing accommodation for this class, please give a copy of your OSD Authorization for Testing Accommodation (AFTA) form to Maggie Tilley in Biology Student Affairs. Usually she will schedule your accommodation, and you will need to fill out forms for her. However, if you need specialized equipment, arrangements may need to be made with OSD rather than the Biology office. You also need to coordinate scheduling of exams with me. All of these arrangements should be made within the 1<sup>st</sup> 2 weeks of the quarter. Please note that the Biology office is closed in the evenings.

If you need accommodations for your quizzes, you need to coordinate with the Biology office/OSD and your TA. Please note that quizzes start October 5, so these arrangements need to be made immediately.

It is your responsibility to make these arrangements in a timely manner.

**Picking up exams:** Midterms will be handed back by your TA the week following the midterm. I will post a midterm key on WebCT. I do not post the key for the final exam. If you want to see your final exam I will have the time and place on WebCT as an announcement towards the end of the quarter.

**Re-grades:** You must write in pen, and you may NOT use "white-out" if you want to be eligible for a re-grade. Request for re-grades must be in writing and must be received by 3:00 PM on Friday November 13 (This deadline is for any grading correction, including arithmetic mistakes in the calculation of your score). You do not need to discuss the re-grade request with me, and I will not decide on a re-grade "on the fly." The written request must include 1) the question you want re-

graded, and 2) the specific reason you feel your answer was graded incorrectly. Please make sure your request is legible - I will not consider your request if I can not read it. Please hand your test and a hard copy of your re-grade request to me before or after lecture. If I receive a re-grade request I may re-grade your entire test. Any re-grade may either raise OR lower your score.

Requesting a re-grade should not be a gamble. You should request a re-grade based on your thorough knowledge of the subject matter, and thus confidence that a mistake was made. If you quote the text or lectures, please include where that information was from (text, page 54, paragraph 3 OR lecture Population Genetics A slide 37). You may include Xerox pages from other reference material as well (include full reference). If your reason for requesting a re-grade is that a friend's exam was graded differently than yours, you must include that friend's exam in your re-grade request.

I will take points off of your exam score for incorrect factual information on the re-grade request. I put time and serious consideration into all re-grade requests, and I expect you to do the same.

When grading exams, a top priority of the BILD 3 staff is consistency - we try very hard to use exactly the same grading criteria for every exam. Thus, you may feel that a particular question was graded too harshly on your exam, but that same criteria was used for every exam. We can not give you extra points without going back through every exam and giving every exam with that answer extra points. For this reason, we only change points if there truly was a mistake in the grading.

I Xerox a number of the exams, and compare re-grade requests with those copies. Changing any answer on your exam and then requesting a re-grade will be reported as cheating to the Academic Integrity Coordinator. (I often re-grade the entire exam.)

**Discussion section:** This course includes both lectures and once-weekly discussion sections, led by a TA. Attendance at discussion sections is required.

Discussion section will start Monday September 28.

Sign up for discussion sections will be online with your student PID (<http://sections.ucsd.edu/>). I will open enrollment at 12:30 PM on Friday September 25, 2009. If you are unable to enroll at that time, you can give your PID and a priority list to a friend and ask them to enroll you.

You do **NOT** enroll for discussion section on WebReg.

You **MUST** enroll in section - you will not get credit if you simply attend.

I would recommend to everyone, and especially to those with a tight schedule, that you enroll as soon as possible after I open up enrollment. There are always popular times that fill up very quickly.

If you are on the wait list, you can not actually enroll but can/should list your preferences. If you are then enrolled in the class you will automatically be enrolled in your preferred section **if there is space available**. This process happens every day at 8 AM. (Thus, if you get into our class at 3 PM, you will not be automatically enrolled in discussion section until 8 AM the next day.) After you are

added, you should check the web site (<http://sections.ucsd.edu/>) to find out which section you got into. **If all of your preferences were full, you will not be enrolled in any section.** You will then need get on the website yourself and enroll in a section that has space. Please do not ask me to check your discussion section status - it is your responsibility to be sure you are enrolled in discussion section, and to know the discussion section in which you are enrolled.

**If you are on the wait list you SHOULD still go to discussion section!**

When enrolling in discussion section, please be sure that you are enrolling in the correct class. There are multiple BILD 3 courses every quarter! They are different courses and enrollment for each is separate. If you are indeed enrolled in our class (not on the wait list) and the program asks you to list your preferences - something is wrong. Maybe you are not in the right class. Please check.

Discussion section enrollment will close at 12:30 PM on Friday October 9. Please finalize your enrollment by that time. **There will be NO discussion section changes after that time, for any reason.** Please finalize your enrollment in other courses and ask you boss, coach, etc. to finalize your quarter's schedule before discussion section enrollment closes.

Before October 9, you can attend any discussion section. If you take a quiz in more than one discussion section, you will get your first score.

**After October 9, you must attend the discussion section in which you are enrolled, according to (<http://sections.ucsd.edu/>).** If you attend a different discussion section than the one in which you are enrolled you will not get credit for your quiz and activity that week. If you are not enrolled in discussion section by noon on October 9, you will automatically lose 190 points (all credit for quizzes and activities). You can check your discussion section enrollment at (<http://sections.ucsd.edu/>). Your discussion section will be highlighted. It is your responsibility to know the section in which you are enrolled, and to go to that section only.

Sometimes there are multiple sections scheduled at the same day and time, but in different rooms. Please check to make sure you are going to the correct section. If you go to a different room than you are enrolled, you will not get credit for your participation.

**Discussion Sections:** There will be no discussion section following weeks:

- week 0 (Sept. 24-25) due to the 1<sup>st</sup> days of classes
- week 5 (Oct. 26-30) due to midterm
- week 7 (Nov. 9-13) due to Veteran's Day holiday
- week 9 (Nov. 23-27) due to Thanksgiving holiday

**Discussion Section Quizzes:** During each section there will be a quiz. The quiz will be given during the 1<sup>st</sup> 15-20 minutes of section (at the TA's discretion, depending on the length of their particular quiz). If you are late, you will have whatever time is remaining of the time allotted. If you are later that that, you will not be able to take the quiz. If you have issues getting to class on time, discuss them with your TA before it is a problem.

Quizzes are worth 30 pts each. There will be 5 quizzes but the lowest 2 scores will be dropped, thus you can receive a total of 90 points for the quizzes.

Your first quiz will be the week of October 5-9.

The quizzes will cover the previous week or weeks' lecture and reading material (everything since the last quiz or midterm). This may include material from more than one week, when we have weeks with no discussion section. Note that the reading material that you are responsible for when taking a quiz is whatever is associated with the lecture you are responsible for. My lectures don't always keep pace with what is on the syllabus. Thus, if I lecture on Community Ecology on November 3 (week 6), you are responsible for Ch 54 (Community Ecology) reading on the week 7 quiz, even though the syllabus says Ch 52 is the reading for November 3.

<u>Week</u>	<u>Quiz</u>	<u>Activity</u>
<b>Week 0 (Sept. 24-25)</b>	<b>no discussion section</b>	
Week 1 (Sept. 28 - Oct. 2)	<b>no quiz</b>	simulation of natural selection
Week 2 (Oct. 5 - 9)	quiz on week 0 & 1 material	discuss "Man Who Evolved"
Week 3 (Oct. 12 - 16)	quiz on week 2 material	rock-paper-scissors game
Week 4 (Oct. 19 - 23)	quiz on week 3 material	exam prep
<b>Week 5 (Oct. 26 - 30)</b>	<b>no discussion section</b>	
Week 6 (Nov. 2 - 6)	<b>no quiz</b>	mark-recapture
<b>Week 7 (Nov. 9-13)</b>	<b>no discussion section</b>	
Week 8 (Nov. 16 - 20)	quiz on week 5 (Oct 29 only), 6, & 7 material	diversity
<b>Week 9 (Nov. 23 - 27)</b>	<b>no discussion section</b>	
Week 10 (Nov. 30 - Dec. 4)	quiz on week 8 & 9 material	history of Earth

**Discussion Section Activities:** After the quiz and discussion, there will be an activity meant to illustrate the concepts covered in lecture. You will get points for participation in the activity. There will be 7 activities worth 20 points each, and the two lowest scores will be dropped. Thus you can earn a total of 100 points on the activities.

**There are NO make-ups for discussion section quizzes and activities:** Before October 9, you can change your discussion section time without penalty. You will get credit for quizzes and activities in any section you attend. After October 9, you must take the quiz and do the activity in the section that you signed up for. **There will be no make-ups on quizzes or activities for any reason.** You may not take a quiz or do the activity in a different section than you are signed up for (according to <http://sections.ucsd.edu/>) as a make-up. We drop the two lowest scores specifically to accommodate students with unexpected emergencies. If you have an emergency that requires your absence for more than two weeks, you can discuss this with the Biology Student Affairs at 858-534-0557 or email [question@biology.ucsd.edu](mailto:question@biology.ucsd.edu). Plan accordingly - do not miss discussion section for unimportant reasons - save those dropped scores for unexpected emergencies only.

**Also, discussion section material will be included on the exams.** Thus, even if you have earned the maximum number of points for quizzes and activities, it is in your best interest to attend every discussion section, even those the last week of the quarter.



**Discussion section homework for week of October 5-9**

For discussion section the week of October 5-9, please read, "The Man Who Evolved" by Edmund Hamilton, which is posted on WebCT. To prepare for section, write down three misconceptions about evolution in the story.

**Grading:**

Discussion section activities	100 points
Discussion section quizzes	90 points
Lecture clicker questions	100 points
Midterm	300 points
Final	<u>500 points</u>
Total	1090 points

I grade on a curve. My approximate grade distribution is:

- > 20% of the scores - A
- > next 30% of the scores - B
- > next 40% of the scores - C

Thus in a class of 412, the top 78 students (top 19%) will earn an "A," the 119 students (29%) with the next highest scores will earn a "B", and the 161 students (39%) with the next highest scores will earn a "C". If you earn the median score (half of your classmates have higher scores and half have lower scores) you will earn a "C". Your final letter grade will be based on your TOTAL number of points. I do give plus and minus grades, but only on the final course grades. The pluses and minuses do not make the curve easier, they only help to differentiate the scores within the ranges above.

### BILD 3 TAs WINTER 2008

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## Clicker Instructions

### Clicker grading

If you answer	you will receive
≥ 80% of clicker questions	100 pts
≥ 60% of clicker questions	90 pts
≥ 40% of clicker questions	70 pts
≥ 20% of clicker questions	50 pts

**It is your responsibility to have your clicker with you at lecture and to make sure it is working properly. There will be no make-up opportunities for clicker questions, for any reason, nor can you get clicker credit for handing in questions on paper, etc.**

### Batteries

Clickers require 3 AAA batteries. A flashing red "low battery" light lets you know when you need to change batteries. There are instructions on the back of the clicker on how to change batteries.

### Register your clicker

Go to: <http://www.iclicker.com/dnn/>. Click on "Register Your i>Clicker". Follow the instructions. The ID number for your clicker is on the back underneath the bar code. Note, the i>clicker IDs may have zeros, but will not include the letter "O". Please use your USERNAME (User ID on WebCT) as your student ID. This is the 1<sup>st</sup> part of your UCSD email address. (Please note - this is not your PID.) Please use the same first and last name on your i>clicker registration as on WebCT.

If you are a continuing education student, use the User ID listed on WebCT (it will start with "AX...")

You will not see your clicker points on WebCT until you have registered your i>clicker online. In order to ensure your clicker is working properly, please register as soon as possible. Every student in this course must have their own i>clicker to receive clicker credit. You will not receive any clicker credit until you correctly register your i>clicker online.

### If you can not read the i>clicker ID number

Some of the used i>clickers have the ID number rubbed off. I can retrieve that number for you - we will have a session after class. If you want to sell your clicker, please keep a record of that clicker ID number.

### Turn it on

Turn your clicker on with the bottom button.

### Answering questions

I will ask questions, and you will respond by pushing buttons A - E. Please wait until I start the voting before you respond. There will be a timer on the screen when the voting has begun. When your answer has been received, you will see a solid green "Vote Status" light. If your answer was not received properly, The Vote Status light will be flashing red. While the timer is going, you can change your answer as many times as you want. Just press a different button.

You get credit for answering the question, regardless if your answer was correct or incorrect.

Like all technologies, clickers sometimes malfunction. This is why I give full clicker credit if you answer 80% of the questions or more. I do not adjust scores in other ways. Do not use the "80% rule" as an opportunity to skip class. Use this only as a safeguard for clicker malfunctions.

#### Lost clickers

If you lose your clicker mid-quarter and you use a different clicker, you need to change your registration on-line AND you need to email me the following (before the next lecture):

- a) your lecture time (8 AM or 2 PM)
- c) UCSD email (username / WebCT user ID)
- d) your clicker ID

### BILD 3 Clicker Troubleshooting

The 1<sup>st</sup> 2 weeks of class the clicker points will not count toward your grade. During this time, however, clicker points will be on WebCT as soon as possible after lecture so you can check to see if you are getting the clicker points you deserve. (They will be erased before I tally the final scores.) On WebCT the clicker point columns are labeled like this: "1/7(2)". That means on 1/7 there were 2 possible points. If you answered both questions, and your score is anything other than a 2, there is a problem.

Some clickers are not functional - this is your time to find that out. I do not adjust scores for malfunctioning clickers. **It is your responsibility to use this these 1<sup>st</sup> two weeks, when the points do not count, to learn how to use your clicker and to ensure that your clicker is working properly.**

If you have problems, go through the troubleshooting guide below. Starting October 13, the clicker points will count, and I will assume all problems have been sorted out.

#### TROUBLESHOOTING

If you are not getting the points you deserve:

1. Check your registration. Your student ID must match your WebCT user ID exactly. Remember, this is NOT your PID.
2. You will not get credit unless you are in the lecture for which you are registered. You can not get clicker credit if you are signed up for the 8 AM lecture but attend the 2 PM lecture, and vice-versa.
3. Make sure you wait until I start the question before you answer - you should see the timer going.
4. Make sure you answer BEFORE time has run out. No answer is accepted after the time has ended.
5. Every student in this class needs there own clicker - if you are sharing with another student one of you will not get any points.
6. Are your batteries are good? (See the back of the i>clicker for instructions.)
7. If you have done everything correctly, please come to my office hours (or make an appointment). We can check you clicker there. If your clicker is malfunctioning the bookstore will exchange it. I can not do anything to check your clicker over email, nor can I check it before or after class.
8. It is your responsibility to make sure you are getting the points you deserve. If there is a problem, you need to see me right away so we can resolve the problem for future lectures. I will not give clicker points retroactively.