

*It is the responsibility of all PSL 310 students to read and understand this entire Syllabus.  
Questions may be posted on the Discussion Forum in D2L titled "Questions about the Syllabus or the Course?"  
in the "Course Introduction" folder.*

**Hybrid PSL 310 (Sections 740-749) Spring Semester 2016  
Physiology for Pre-Health Professionals**

**Professor** Dr. Adele Denison  
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**Email** denison4@psl.msu.edu  
**Office Hours** Tues, Wed, Thurs 1:00-2:30 and gladly other times by appointment  
**Exams\*** **MONDAYS at 6:00-6:50 pm** for all sections (except the last Exam, PSL 310 has a "Common Final Exam" on Tuesday, May 3, 2016 from 8:20 pm – 9:10 pm.)

**\*IMPORTANT: EXAMS FOR ALL SECTIONS ARE ON MONDAYS AT 6:00-6:50 pm on February 1, February 22, March 21, and April 11.** All Monday exam dates and times were posted on the Schedule of Courses before you enrolled. There are no other scheduled exam times.

**Teaching Assistants** Cho Rattanasinchai ([rattanal@msu.edu](mailto:rattanal@msu.edu)) and Caitlyn Herr ([vangeld6@msu.edu](mailto:vangeld6@msu.edu)).  
**TA Office Hours** email to arrange an appointment via D2L or the email address immediately above

**Reviews** - Optional reviews each Friday before an exam (on Jan 29, Feb 19, Mar 18, Apr 8, Apr 29) at 4:10-5:00 pm in 1415 BPS. (That's the best time we could find.) Review reminders will be posted in the calendar on D2L.

**Help sessions with TAs** - on Monday and Tuesday nights (except exam nights) beginning January 25 at 6:15-7:15 pm in Room 2235 BPS for help and study tips from the TAs and to go over your exams (bring your feedback email).

Because it is so important for doing well in the class, "Tips for Success" are listed first; the most common mistakes of previous PSL 310 students are included.

### **Tips for Success**

1. Don't let the course get ahead of you; it can severely affect your grade. Keep up with the material in the course by following the "Recommended Daily Schedule" on the last pages of this Syllabus. Do your Homework and Case Studies early, that is, soon after they are posted – this is a way to keep up and will help you do well in the class!
2. Write out in your own words and understand (don't just memorize) the Learning Objectives. Results of a survey from previous students: 80% agreed that doing the Objectives made the material "stick with them" (75% strongly agreed, 5% agreed), 15% disagreed. People are different (and you will need to figure out what works best for you), but it is very likely that doing the Objectives will help you a lot. They are time consuming, but are an important way most students really understand lecture material. **All exams count** – don't make the mistake of failing an exam to learn you need to do the Learning Objectives.
3. **DO THE LEARNING OBJECTIVES IN SMALL DOSES!** You can do the Objectives after watching one or two Lecture videos (about ½ hour of Lecture) – this is probably the best way for most students because it keeps you from being overwhelmed by the Objectives. If you save them up you can get in the situation where you can't finish them.
4. Try writing out your responses to the Objectives while watching the Lecture videos again. For many students it is a real effective way to remain engaged and attentive, and therefore, learn the material more quickly.
5. One of the biggest mistakes students can make is to treat the "Challenge Questions and Reading Questions" (in the Appendix of the Course Pack) as only an assignment and not as an important LEARNING tool. **YOU SHOULD NOT IGNORE ANSWERS** to the Challenge Questions and Reading Questions. The Challenge Questions and Reading

Questions and the ANSWERS to the Challenge Questions and Reading Questions contain NEW material that students are responsible for on exams (another mistake that can be made).

**Important message! Several questions on each Unit Exam are likely to come from the Challenge Questions and Reading Questions and the ANSWERS to those questions!** You should work through and understand the Challenge Questions and Reading Questions, including the textbook readings assigned with those questions, and read and understand the ANSWERS to the Challenge Questions and Reading Questions – all are fair game for exams.

6. Do all Practice Questions\* to help you understand and remember the material and to help prepare you for exams. Figure out why the right answers are right and FIGURE OUT WHY THE WRONG ANSWERS ARE WRONG. This can be huge; “memorizing” the right answers can be a recipe for failing exams.

**\*WHAT ARE THE “PRACTICE QUESTIONS”?**

The practice questions include the Comprehension Checks (answered in videos posted on D2L), the Study Questions (in the Course Pack), Extra Study Questions (in the Appendix of the Course Pack), Challenge Questions and Reading Questions and the ANSWERS to those questions (in the Appendix of the Course Pack), Homework questions and Case Study questions (answers posted on D2L on Thursday, after the week’s in-class sessions, in “Homework Answers” and “Study Guide for the Case Studies for the Unit”).

7. **DO THE STUDY QUESTIONS IN “ROUNDS”. THE QUESTIONS WILL BE MORE EFFECTIVE IF YOU DO SOME AND COME BACK LATER AND DO MORE.** Research has shown that you will learn the most if you come back later and have to retrieve what you have learned earlier. The Study Questions are written in rounds; you can easily do some and then some later and then some later (it’s much less effective if you do them all at once and only once). You should also come back and re-do the other Practice Questions multiple times to enhance your learning.
8. Realize that for almost all students, physiology is one of their most challenging courses and that it is the kind of course which requires at least 2-3 hours of studying a week for each hour of Lecture. Make sure you devote enough time to studying the material and enough time for it to “sink in”; allow enough time for the “light bulb to come on”.
9. Do not memorize all the details of the figures in the Course Pack. You are not directly tested on the figures (that is, you are not required to identify different parts of a figure or be able to draw a figure....there are some exceptions to this - but those exceptions are specifically noted in the Learning Objectives in the Course Pack). The main function of the figures is to reinforce your learning and to help you remember and understand concepts (since “a picture paints a thousand words”).
10. If you have not taken Chemistry or Biology within the last few years and need some brushing up, you should read Appendix A in the ebook before the Membrane Transport Lecture (and use it for reference during the semester.)
11. Attend review sessions and office hours (professor’s office hours and/or TA office hours) if you need extra help.
12. Go to help sessions scheduled on Monday and Tuesday nights (except exam nights) to learn from your mistakes on the exam and for study tips from the TAs on how to do better on exams.
13. If you are unhappy with how you are doing in the course, contact the Professor early in the semester for ideas about ways to study the material. (If you wait too long it may be impossible to increase your grade as much as you want.) Let the Professor know of any problems or difficulties you are having with the course. **She wants to help! Don't hesitate to ask!**

### **Description of PSL 310**

Fundamental concepts of human organ system physiology with clinical correlations for students entering health care fields.

### **Overall Objective of the Course and Professor’s Goal**

Pre-health professional students need an especially strong foundation in physiology because successful later course work, and indeed, a successful profession requires it. It’s like building the foundation for a house out of strong material (cement, not rotten wood) before you build the house and decorate the rooms. Finishing the house and decorating the rooms makes sense only if you know you are on good footing. Also

true is that no matter how good you are at decorating, if the foundation is not sound, your house has serious problems. Physiology will build the foundation or the basement, upon which you may build a large, lavish structure which you can then ornately decorate (i.e. your health profession and then your specialty).

My overall goal as your Professor is to help you build this solid foundation. We have a very limited amount of time, and can't cover everything I'd like to (everything about how the body works is interesting, almost always fascinating), but I hope to give you the tools (information, concepts, principles, and the thinking skills) to build the strong foundation you need to put that lavish, ornate house on.

### **Core Concepts or “Big Ideas” in PSL 310**

Students completing PSL 310 should understand these core concepts:

<b>Homeostasis</b>	The internal environment is maintained relatively constant by negative feedback control.
<b>Cell membranes</b>	Cell membranes allow certain substances to enter or leave the cell. Transport through the membrane is a function of cell membrane structure.
<b>Organ systems</b>	Each organ system performs an essential function for the body.
<b>Structure/Function</b>	Structure of an organ or organ system determines its function.
<b>Cause and Effect</b>	The body acts as a machine governed by the principle of cause and effect.
<b>Laws of Science</b>	The functions of the body can be explained by laws of science (e.g. chemistry, physics).
<b>Interaction</b>	Organ systems interact with each other to contribute to and maintain homeostasis.
<b>Communication</b>	Cells in the body communicate with other cells. The nervous system, endocrine system, and local chemicals are important means of communication.

The Core Concepts (“Big Ideas”) above have been modified from: Michael J, McFarland J. The core principles (“big ideas”) of physiology: results of faculty surveys. *Adv Physiol Educ.* 2011 Dec; 35(4):336-41. doi: 10.1152/advan.00004.2011.

### **Learning Objectives**

Specific Learning Objectives are included in the Course Pack (after each Lecture Notes topic).

### **Course Pack**

*PSL 310 Course Pack* (Part 1 and Part 2) are **required**. Part 1 includes an access code to “Course Mate”, which includes an ebook of *Human Physiology: From Cells to Systems*, eighth edition, by Lauralee Sherwood. Students should buy Part 1 and Part 2 early in the semester (since Part 2 may not be available later). The Course Pack was written by your Professor. It includes partial Lecture Notes (completed during lecture videos), Learning Objectives for each Lecture Topic - NOTE: Learning Objectives are assignments (which are not collected or graded), Comprehension Checks (questions answered during videos), Study Questions (which you do on your own), and more practice questions in the Appendix. Keep up with the material in the Course Pack (doing the Objectives after each or a couple Lecture videos is best) – it is WAY too much to do immediately before exams.

### **Textbook – an ebook**

PSL 310 changed to an ebook to save students money. Nothing you are tested on comes directly from the textbook (unless it is specifically assigned reading – i.e. CNS reading or readings for the Challenge Questions and Text Reading Questions) but it is good to have a digital book to be able to see figures in color and as a reference. As mentioned above access to “Course Mate” comes with Part 1 of the Course Pack; Course Mate includes an ebook of *Human Physiology: From Cells to Systems*, eighth edition, by Lauralee Sherwood. There are learning tools on Course Mate that may help your learning but no material that is only on Course Mate is

required for the class. There is a video link in the Course Introduction folder in D2L called “How to use your Course Mate access code” which you should watch. You will be asked for a course key when you create an account at login.cengagebrain.com. For PSL 310 the course key is **CM-9781133043270-0000080**

The hard copy textbook is on reserve in the Main Library (4 copies without Course Mate). For students who want their own hard copy text, many area bookstores have used copies and it can be found on the internet using ISBN 978-1-111-57743-8

### **Technical Requirements**

You should have used the link posted at the MSU Schedule of Courses <http://www.msu.edu/~denison4/psl310/> and read the web page that listed the technical requirements for Hybrid PSL 310. You must have those requirements listed at the web page to successfully watch the online videos and complete the course.

**\*\*\*\*IMPORTANT NOTE: Using wireless can create problems\*\*\*\***; sometimes the entire video does not download when using wireless. You can try downloading the video again using wireless or it may be better to connect to the internet using an Ethernet cable.

You may want to use the information in the Orientation folder in D2L which includes a video link to get you acquainted with D2L. For problems with D2L or technical issues, you should call the D2L Help Line at (517) 432-6200 or (844) 678-6200 (you can call 24 hours a day, 7 days a week). These numbers are also listed in the Orientation folder in D2L. You should NOT contact Dr. Denison for technical problems, instead, you should contact the D2L Help Line.

### **Course Organization**

The lectures for this course are all available online. They will be delivered by streaming video (lectures cannot be downloaded and saved). Students will watch the online lectures and will simultaneously complete partial Lecture Notes which are included in the PSL 310 Course Pack. (You will need to have a comfortable place to write while you are watching the lectures.) Students will access the lectures through D2L (Michigan State University’s course management system). Type in d2l.msu.edu, then login with your MSU netID and password, then click on SS15-PSL-310-All Sections-Physiology Pre-Health Prof. Students should be aware that the Professor may follow the activity of students on D2L.

### **Lines of Communication**

Some announcements about the class will be posted in D2L in “News”. All students should check D2L News regularly (every weekday). Students should also check the Calendar in D2L regularly (every weekday). If there are changes in the course protocol or the schedule, it will be posted on D2L in News. Please note that there could be changes in course protocol. It is the responsibility of all students to be aware of all News posted on D2L about Hybrid PSL 310. Other communications about the class may be by email. It is the responsibility of all students to regularly (every weekday) check their MSU email account (msu.edu email) for any communication about Hybrid PSL 310.

Of particular importance is checking the course D2L site when an early winter storm occurs (they are the worst). If an exam must be canceled due to weather conditions or an emergency (which is unlikely, but possible), your Professor will do all humanly possible to post the cancellation on D2L in News before the scheduled exam time. Students are required to check D2L News before the next day for instructions for the new exam time and place if an exam had to be canceled.

Questions about course content should be posted on the Discussion Forums in D2L. Each Unit of material will have a Discussion Forum posted in the Unit Materials folder. Try to be as clear as you can when posting

a question, e.g. citing the page in the Course Pack, the Study Question number, or the Homework question. Dr. Denison or the TAs will try to check and respond to questions on the Discussion Forum at least every 48 hours (excluding weekends and holidays). The last time Dr. Denison or the TAs will reliably check the Discussion Forum before an exam will be the day before the exam at 5 pm.

Personal questions regarding the class should be emailed to Dr. Denison or you may call on the telephone. (I would be happy to talk to you if I'm there or you can leave a message for me to call you back.) .

### **Backup Plan if there are severe problems with D2L before Exams**

If D2L is completely down for more than 8 hours during the two days before an exam, email Dr. Denison about the problem. Note: this applies to SEVERE problems with D2L. Dr. Denison will try to check email once in late morning and the evening on each of the two days before an exam. If Dr. Denison determines there is a severe problem with D2L that affects your ability to study, she will send emails to the class (using the Registrar's site). These emails will have the links for lecture videos for the Unit and other posted files attached as pdf files. The Registrar's site only allows 2 attachments – so there may be multiple emails. So, if there is a D2L catastrophe during one of the two days before an exam, you should check your MSU email account. Barring other catastrophes (e.g. the Registrar's site not working or the video server going down), this should be a good backup plan.

### **Unit Exams**

Unit Exams will be based on the Learning Objectives, the Study Guide for the Case Studies for the Unit, and all the "Practice Questions". Again, what are the Practice Questions? The practice questions include the Comprehension Checks (answered in videos posted on D2L), the Study Questions (in the Course Pack), Extra Study Questions (in the Appendix of the Course Pack), Challenge Questions and Reading Questions and the ANSWERS to those questions (in the Appendix of the Course Pack), and the Homework questions and the ANSWERS to the Homework questions (posted on D2L).

The student is encouraged to become familiar with the format of the exam questions by using the Comprehension Checks and Study Questions in the Course Pack. A note of caution when responding to exam questions: take care when answering all exam questions; choices made on the scantron answer sheet which are not options for the exam questions will be marked incorrect without exception. The student needs to be sure that their choices match the available choices. (If your answer is C and there is no answer C in the question, it will be marked wrong.)

Some exam questions will be similar to the Practice Questions. Many of these questions will be "changed" to make exam questions (a multiple choice question changed to a true/false question would be an example of a "changed" question. Replacing the word increase with decrease can make a "changed" question. Taking two or more "easy" questions to make one more challenging question can make a "changed" question. You can look through the Study Questions and find examples of "changed" questions).

Other questions on an exam will be entirely **NEW** questions, not based on particular practice questions, but based on Learning Objectives, ANSWERS to the Challenge Questions and Reading Questions, readings assigned with the Challenge Questions and Reading Questions, or based on the Study Guide for the Case Studies for the Unit.

There will be 5 Unit Exams in the course (see "Schedule for Hybrid PSL 310 Spring 2015" for material covered on each exam and the date of each exam). The last Unit Exam (Unit 5 Exam) will be given during the Common Final Exam time for PSL 310. **THERE IS NO CUMULATIVE FINAL EXAM IN THIS COURSE.**

All students must bring their student ID to all exams and #2 pencils. There will be 42 exam questions on each Unit Exam. Exam questions will be 2 to 5 item multiple choice, true/false, and perhaps some matching questions.

An “Exam Procedure” document will be posted on D2L that all students must read and understand before our first exam.

### Make-up exams

Make-up exams will be given sparingly and only if the student provides clear documentation of a valid medical excuse or other emergency\* - a slip from the emergency room or a note from a doctor’s office that verifies your illness on the day of the exam would work (also see \*\* below); just “not feeling well” won’t work. The student must contact the Professor no later than 24 hours after the time of the missed scheduled exam to make arrangements to take a make-up exam unless special circumstances (e.g. hospitalization) arise. If possible, it is best to contact the Professor before the missed exam to be sure your excuse is acceptable. Documentation of illness or emergency (which is required to be able to take a make-up exam) must be submitted to the Professor within 48 hours after the missed exam unless special circumstances (e.g. hospitalization) arise. Make-up exams are given on the Friday evening after the missed exam date (unless special circumstances arise and the Professor approves a later or different make-up exam date). If the student does not contact and present documentation to the Professor within the allotted time, the missed examination score will be recorded as 0 points (zero points). Note: if the student knows ahead of time that they will have to miss a scheduled exam time for a very good reason (for example, a verified exam conflict – e.g. if an online class schedules an exam during our exam time) it is possible to arrange an early Friday exam.

\*If you have any questions about what medical documents you will need, you should contact Dr. Denison by phone and email before 1:00 pm the day of the exam (and leave a phone number where you can be reached).

\*\*Students who are grieving a loss or tragedy and need to be absent should follow the MSU Grief Absence Policy using the following link <http://splife.studentlife.msu.edu/regulations/student-group-regulations-administrative-rulings-all-university-policies-and-selected-ordinances/grief-absence-policy>

### Homework and Case Study Sessions

There will be Case Study sessions (in-class meetings) the week before each Unit Exam. Students will attend their section’s Case Study meeting time and will submit Homework answers (done before the in-class session) and answers to the Case Studies questions (discussed during the class meeting).

As mentioned above, there will be Homework due at each Case Study session. The Homework questions will be posted on D2L in the Unit Materials folder. Students will bring their answers to the Homework questions to their Case Study meeting and use the same answer sheet (scantron) for their answers to the Case Studies questions. Students will work in groups and will discuss answers to the case study questions and will be asked to share their answers with the class.

The lowest Homework/ Case Study Session grade will be dropped. Homework/Case Study Assignments alone (that is, without attending the Case Study session) will NOT be accepted.

Students are not allowed to turn in a scantron and leave the Case Study session early – if you can’t stay for the entire class you can go to the makeup session or try to get approval to attend another section (described below).

## Makeup Case Study sessions

Students who miss their section's Case Study session can sign up via a survey on D2L for the makeup Case Study session. The survey will be available by Monday night of the Case Study sessions week. The makeup session will be on Thursday evening of the Case Study week at 7:50-9:10 pm. Depending on the number of students signing up for makeup sessions, students may only be able to do ONE Case Study makeup session (we will announce a limit of only one makeup session per student if the makeup sessions become too large).

Students with an extended absence (who missed their section's Case Study session and the makeup session) with a valid excuse for missing the sessions (e.g. doctor's note or documented emergency or documented MSU athletic team travel) presented to the Professor by the Monday after the missed in-class session by 5 pm will be allowed to do a make-up assignment. If the student does not contact the Professor by 5 pm the Monday after their scheduled missed class to make arrangements, the makeup assignment will no longer be possible and zero points will be recorded for the missed in-class session (unless special circumstances arise, e.g. emergency surgery with inability to communicate). The makeup assignment will be available on D2L (available only to students with a valid excuse approved by the Professor) on the last Friday of the course before Finals Week. The makeup assignment will cover all 5 units of the course. The makeup assignment must be printed and turned in at the final exam time. If students have a valid excuse for more than one in-class meeting, the make-up assignment grade will be used for those excused absences. No late makeup assignments will be accepted. This means after the PSL 310 Unit 5 exam time, you may not turn in a make-up assignment (it's too late)\*.

\*unless the student is excused from the last Exam due to an emergency.

## Approval to Attend another Case Study Session

Students with an important reason for missing their section's meeting, a reason that is APPROVED BY DR. DENISON, can try to attend another section if they do the following. 1) Contact Dr. Denison at least 24 hours in advance and get an approval to attend the other section due to an important conflict. 2) Wait until the class begins (that is, wait until start time for the class) to sit down to make sure there is an empty seat for you. 3) Agree to leave\* that class meeting if more than 50 people are attending the session, that is, agree that only students enrolled in that section can stay (and you will leave) if the section is full.

\*if the section you are trying to attend is full you either can drop this case study or try to attend the makeup session (see above)

We are trying to accommodate students but if allowing students to attend other sections creates a problem, this will be canceled.

## Honors Option

Honors students in PSL 310 should read all the material in the "Honors Option" folder in D2L to decide whether they are interested in pursuing an Honors Option in PSL 310. Students must complete an Honors Option Agreement and turn it in to Dr. Denison before 5 pm on Wednesday, Feb. 24, 2015. You must also sign up for an Honors Option presentation time (sign up is via a discussion forum in the Honors Option folder in D2L). You must sign up for a presentation time before 5 pm on Wednesday, Feb. 24, 2015. **MAKE SURE YOU DO BOTH – SUBMIT THE HO AGREEMENT AND SIGN UP FOR A PRESENTATION TIME – BEFORE FEB. 24 AT 5 PM.** Because scheduling for a certain number of people is required (we can't keep changing numbers), students that miss the Feb. 24, 2015 sign up deadline may not be able to complete an Honors Option in PSL 310 (we may not be able to fit you in).

## Grades

### Homework / Case Study Sessions – 160 points

5 Homework/ Case Study sessions worth 40 points each (lowest score dropped) = 160 points

### Exams – Unit 1-5 Exams – 840 points

**Unit 1-5 Exams** are worth 168 points each (42 questions on each exam at 4 points per question)

**5 Unit Exams** worth 168 points each = 840 points

Homework / Case Study Sessions = 160 points/1000 total points = 16% of grade

Exam points = 840 points/ 1000 total points = 84% of grade

## Grading Scale

The following grading scale will be used to determine PSL 310 grades **WITHOUT EXCEPTION** - **it will apply to all students (all students will be treated the same):**

<u>Points</u>	<u>Grade</u>	<u>Percent</u> - to allow estimation of grades during the semester ( <u>Points</u> will be used to assign course grades at semester end)
900 or above	4.0	(90% or above)
850-899	3.5	(85 - 89.99%)
800-849	3.0	(80 - 84.99%)
750-799	2.5	(75 - 79.99%)
700-749	2.0	(70 - 74.99%)
650-699	1.5	(65 - 69.99%)
600-649	1.0	(60 - 64.99%)
599 or below	0.0	(59.99% or below)

Grades and grade cutoffs are fair if you know from the outset exactly how you and all other students will be treated. The Grading Scale above shows how EVERY student will be graded in PSL 310. You should understand that if you get 899 points it will NOT be “bumped up” to give you a 4.0, nor will another student with a 849 get a 3.5, nor will another student with a 799 get a 3.0, and so on (meaning there will be no rounding or “bumping” up of any grade), that is, all grade cut offs above will be used, and a student with 599 points will receive a 0.0. Students should be able to get many Case Study session points (many of the Case Study points are “free points” if you come to the class sessions and put in the work). At the end of the course, all students will be assigned grades according to the points they have earned in the class using the above Grading Scale. There will be no special treatment for any individual students. In a class as large as PSL 310, this is the only fair way to assign grades.

You can determine your percent grade at any time by dividing the points you’ve earned by the total number of points possible in the course at that time. Contact the Professor if you have any questions about course grading. Notice: points will be used to assign course grades at semester end (see above).

Your grade is assigned by the number of points you earn. There is no curve in this class; there is no limit to the number of students who can get high grades. So help each other! The goal is learning and working



together (e.g. study groups) can help many students learn. (You may really learn it if you teach it to someone else. If you are in a study group, take turns teaching.)

### **Special Needs**

Students with special needs should contact the Resource Center for Persons with Disabilities (RCPD) at MSU to establish reasonable accommodations. Students who need special accommodations must be registered with RCPD. Contact the instructor at least two weeks before the first exam if you need accommodations for exams.

### **Academic Honesty**

As stated in *Spartan Life Student Handbook* under Student Rights and Responsibilities "the student shares with the faculty the responsibility for maintaining the integrity of scholarship, grades, and professional standards". Your professor will adhere to the All-University Policy on Integrity of Scholarship and Grades in Spartan Life. Students should understand the consequences for cheating outlined in the All-University Policy, including that students who commit an act of academic dishonesty will have an Academic Dishonesty Report submitted which is added to the student's academic record and may receive a 0.0 in the course.

### **Feedback from Students Welcome (and Encouraged)**

Your Professor is very interested in what you think about the course and the hybrid structure. I welcome your comments or suggestions. You can discuss issues about the class in person with me, or write comments down on paper and give them to me or you can email them to me. You could also send your comments to a TA (and can request to remain anonymous).

The entire class may be asked to complete surveys about the class (anonymous surveys posted on D2L) or evaluations distributed at the in-class sessions.

Another way I may ask for feedback is by forming a focus group of volunteer students. We will figure out a convenient time for all involved to meet and we will discuss issues and ideas about the class.

Students are an important source for ways to improve courses; your suggestions could help make this course better. However, please realize that not all suggestions can be immediately incorporated into the class, but they will all be given consideration (and some may be incorporated later).

### Schedule for Hybrid PSL 310 Spring 2015\*

Week	Dates	Lecture Topic	Class meeting/Exam	Ebook Readings**
1	1/11,12	Course Intro, Homeostasis		Chapter 1
	11/13,14	Membrane Transport		Chapter 3 to pg 79
2	1/18	NO CLASSES		
	1/19-21	Membrane Potentials, CNS***		79-86, Chapter 4 to pg 105
3	1/25-1/28	Receptors	<i>1/26-28 Case Study sessions</i>	Chapter 6
		<b>(end of Unit 1 material)</b>		
4	<b>2/1</b>		<b>Unit 1 Exam</b>	
	2/2,3	Synapses		105-118
	2/3,4	Reflexes and ANS		Chapter 7 to pg 248
5	2/8	Reflexes and ANS		
	2/9-11	Muscle		248-255, Chapter 8 to pg 292
6	2/15	Smooth and Cardiac Muscle		292-300
	2/16-18	Blood	<i>2/16-18 Case Study sessions</i>	Chapter 11, Chapter 12 to pg 423
		<b>(end of Unit 2 material)</b>		
7	<b>2/22</b>	EXAM	<b>Unit 2 Exam</b>	
	2/23,24	Immunity-B and T Cells		Chapter 12 <u>from</u> pg 423
	2/24,25	Cardiac Physiology		Chapter 9
8	2/29,3/1,2	Cardiac Physiology		
	3/2,3	Vascular Physiology		Chapter 10
	3/7-10	SPRING BREAK WEEK		
9	3/14-17	Vascular Physiology	<i>3/15-17 Case Study sessions</i>	
		<b>(end of Unit 3 material)</b>		
10	<b>3/21</b>	EXAM	<b>Unit 3 Exam</b>	
	2/22-24	Respiratory Physiology		Chapter 13
11	3/28	Respiratory Physiology		
	3/29-31	Renal Physiology		Chapter 14
	3/31	Fluid and Ion Balance		Chapter 15
12	4/4-7	Fluid and Ion Balance	<i>4/5-7 Case Study sessions</i>	
		<b>(end of Unit 4 material)</b>		
13	<b>4/11</b>	EXAM	<b>Unit 4 Exam</b>	
	4/12-14	Digestive Physiology		Chapter 16
14	4/18,19	Metabolism		704-720
	4/19-21	Endocrine System		118-131, Chapter 18, Chapter 19
15	4/25-28	Reproductive Physiology	<i>4-26-28 Case Study sessions</i>	Chapter 20 to pg 751, 757-774
16	<b>5/3</b>	“Common Final Exam” on Tuesday, May 3, 2016 from 8:20 pm – 9:10 pm	<b>Unit 5 Exam</b>	

\* This Schedule is approximate. There is also a **Recommended Daily Schedule on the following pages** that lists the specific Lecture recordings you should finish each day to help you keep up with the class (to help keep you from falling behind).

\*\* Helpful note: you are NOT directly tested on ebook reading unless it is assigned (e.g. CNS reading or an assigned reading in the Challenge Questions and Reading Questions)

\*\*\*Students learn CNS from reading pages 143-157, 168-171 of the ebook (also found in the “Readings Appendix”, but not in color). The Learning Objectives for this reading is listed as Objective #12 in the Membrane Potentials Objectives on page 63 of the Course Pack.

**PSL 310 Online Recommended Daily Schedule Spring 2016**

Use this Recommended Daily Schedule when you are watching the Lectures, so you know which Lecture videos to finish each day. Monday-Thursday schedule was used. Comprehension Checks videos are not listed since they are short and they are learning tools – most students should use them the way they are posted, that is, right after the material was covered. You can also use them for review, since they are clearly labeled (and quick).

Week	Monday	Tuesday	Wednesday	Thursday
1	January 11  Course Introduction video	January 12  Homeostasis 1-3	January 13  Membrane Transport 1-5	January 14  Membrane Potentials 1-4
2	January 18  NO CLASS	January 19  Membrane Potentials 5-7	January 20  Membrane Potentials 8-10	January 21 CNS reading – CNS is on the Unit 1 Exam! See the bottom of page 10 of the Syllabus.
3	January 25  Receptors 1-3	January 26  Receptors 4-7  <b><u>Case Study Sessions</u></b> Section 740 – 3:00 pm class Section 741 – 4:40 pm class Section 742 – 6:20 pm class Section 743 – 8:00 pm class  <b>Bring printed homework questions <u>with answers</u>. Bring printed case studies.</b>	January 27  Receptors 8-10 <i>end of Unit 1 Lectures</i>  <b><u>Case Study Sessions</u></b> Section 744 – 3:00 pm class Section 745 – 4:40 pm class Section 746 – 6:20 pm class  <b>Bring printed homework questions <u>with answers</u>. Bring printed case studies.</b>	January 28  No Lecture! Study Day!  <b><u>Case Study Sessions</u></b> Section 747 – 3:00 pm class Section 748 – 4:40 pm class Section 749 – 6:20 pm class  <b>Bring printed homework questions <u>with answers</u>. Bring printed case studies.</b>
4	February 1  <b><u>Unit 1 Exam</u></b> <b>6:00-6:50 pm</b> <b>E100 Vet Med</b>	February 2  Synapses 1-3	February 3  Synapses 4, 5 Reflexes and ANS 1,2	February 4  Reflexes and ANS 3-5

Week	Monday	Tuesday	Wednesday	Thursday
5	February 8  Reflexes and ANS 6-9	February 9  Muscle 1-4	February 10  Muscle 5-7	February 11  Muscle 8-13
6	February 15  Smooth and Cardiac Muscle 1-5	February 16  Blood 1-3  <b><u>Case Study Sessions</u></b> Section 740 – 3:00 pm class Section 741 – 4:40 pm class Section 742 – 6:20 pm class Section 743 – 8:00 pm class  <b>Bring printed homework questions <u>with answers</u>. Bring printed case studies.</b>	February 17  Blood 4-7  <i>end of Unit 2 Lectures</i>  <b><u>Case Study Sessions</u></b> Section 744 – 3:00 pm class Section 745 – 4:40 pm class Section 746 – 6:20 pm class  <b>Bring printed homework questions <u>with answers</u>. Bring printed case studies.</b>	February 18  No Lecture! Study Day!  <b><u>Case Study Sessions</u></b> Section 747 – 3:00 pm class Section 748 – 4:40 pm class Section 749 – 6:20 pm class  <b>Bring printed homework questions <u>with answers</u>. Bring printed case studies.</b>
7	February 22  <b><u>Unit 2 Exam</u></b> <b>6:00-6:50 pm</b> <b>E100 Vet Med</b>	February 23  B + T Cells 1-3  Honors Option Agreement and sign up due before 5 pm TOMORROW for interested Honors College students.	February 24  B + T Cells 4,5 Cardiac Physiology 1	February 25  Cardiac Physiology 2-4

Week	Monday	Tuesday	Wednesday	Thursday
8	February 29  Cardiac Physiology 5-7	March 1  Cardiac Physiology 8-11	March 2  Cardiac Physiology 12,13 Vascular Physiology 1,2	March 3  Vascular Physiology 3-6
	March 7  <b>SPRING</b>	March 8  <b>BREAK</b>	March 9  <b>WEEK</b>	March 10
9	March 14  Vascular Physiology 7-9	March 15  Vascular Physiology 10, 11  <b><u>Case Study Sessions</u></b> Section 740 – 3:00 pm class Section 741 – 4:40 pm class Section 742 – 6:20 pm class Section 743 – 8:00 pm class  <b>Bring printed homework questions <u>with answers</u>. Bring printed case studies.</b>	March 16  Vascular Physiology 12,13 <i>end of Unit 3 Lectures</i>  <b><u>Case Study Sessions</u></b> Section 744 – 3:00 pm class Section 745 – 4:40 pm class Section 746 – 6:20 pm class  <b>Bring printed homework questions <u>with answers</u>. Bring printed case studies.</b>	March 17  No Lecture! Study Day!  <b><u>Case Study Sessions</u></b> Section 747 – 3:00 pm class Section 748 – 4:40 pm class Section 749 – 6:20 pm class  <b>Bring printed homework questions <u>with answers</u>. Bring printed case studies.</b>
10	March 21  <b><u>Unit 3 Exam</u></b> 6:00-6:50 pm E100 Vet Med	March 22  Respiratory Physiology 1-4	March 23  Respiratory Physiology 5-8	March 24  Respiratory Physiology 9-12

Week	Monday	Tuesday	Wednesday	Thursday
11	March 28 Respiratory Physiology 13-16	March 29 Renal Physiology 1-4	March 30 Renal Physiology 5-7	March 31 Renal Physiology 8 Fluid + Ion Balance 1-3
12	April 4 Fluid + Ion Balance 4-8	April 5 Fluid + Ion Balance 9 <i>end of Unit 4 Lectures</i>  <b><u>Case Study Sessions</u></b> Section 740 – 3:00 pm class Section 741 – 4:40 pm class Section 742 – 6:20 pm class Section 743 – 8:00 pm class  <b>Bring printed homework questions <u>with answers</u>. Bring printed case studies.</b>	April 6 No Lecture! Study Day!  <b><u>Case Study Sessions</u></b> Section 744 – 3:00 pm class Section 745 – 4:40 pm class Section 746 – 6:20 pm class  <b>Bring printed homework questions <u>with answers</u>. Bring printed case studies.</b>	April 7 No Lecture! Study Day!  <b><u>Case Study Sessions</u></b> Section 747 – 3:00 pm class Section 748 – 4:40 pm class Section 749 – 6:20 pm class  <b>Bring printed homework questions <u>with answers</u>. Bring printed case studies.</b>
13	April 11 <b><u>Unit 4 Exam</u></b> 6:00-6:50 pm E100 Vet Med	April 12 Digestive Physiology 1-3	April 13 Digestive Physiology 4-7	April 14 Digestive Physiology 8-12

Week	Monday	Tuesday	Wednesday	Thursday
14	April 18  Metabolism 1-4	April 19  Metabolism 5 Endocrine 1-3	April 20  Endocrine 4-6	April 21  Endocrine 7-9
15	April 25  Reproductive 1-4	April 26  Reproductive 5,6 <i>end of Unit 5 Lectures</i>  <b><u>Case Study Sessions</u></b> Section 740 – 3:00 pm class Section 741 – 4:40 pm class Section 742 – 6:20 pm class Section 743 – 8:00 pm class  <b>Bring printed homework questions <u>with answers</u>. Bring printed case studies.</b>	April 27  No Lecture! Study Day!!!!  <b><u>Case Study Sessions</u></b> Section 744 – 3:00 pm class Section 745 – 4:40 pm class Section 746 – 6:20 pm class  <b>Bring printed homework questions <u>with answers</u>. Bring printed case studies.</b>	April 28  No Lecture! Study Day!!!! Note only for this day: class may be moved for Engineering Design Day. See calendar in D2L if room is changed.  <b><u>Case Study Sessions</u></b> Section 747 – 3:00 pm class Section 748 – 4:40 pm class Section 749 – 6:20 pm class  <b>Bring printed homework questions <u>with answers</u>. Bring printed case studies.</b>
16	May 2  <b>FINAL EXAMS WEEK</b>	May 3  <b><u>Unit 5 Exam</u></b> <b>8:20 - 9:10 p.m.</b> <b>(Room to be announced)</b>  <b>NOTE THE LATER TIME FOR OUR “COMMON FINAL” EXAM</b>	May 4	May 5