

*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) Fall Semester 2016 Physiology for Pre-Health Professionals

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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” from 8:20 pm–9:10 pm on Monday, Dec 12, 2016).

***IMPORTANT: EXAMS FOR ALL SECTIONS ARE MONDAY EVENINGS at 6:00-6:50 pm in E100 Vet Med Center on September 19, October 10, October 31, and November 21.** 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 Nguyen Truong (truongn2@msu.edu) and Jonathan Schepper (scheppe8@msu.edu)
TA Office Hours email to arrange an appointment via D2L or the email address immediately above

Reviews Optional reviews each Thursday before an exam (on Sept 15, Oct 6, Oct 27, Nov 17, Dec 8) from 6:10-7:00 pm in 1415 BPS.

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 try to 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 a very 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 should do the Objectives after watching the videos listed for each day in the Recommended Daily Schedule. This is the best way for students because it keeps you from being overwhelmed. If you save the Objectives 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 some 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 be able to explain and understand the Challenge Questions and Reading Questions, including the textbook readings assigned with those questions, and the ANSWERS to the Challenge Questions and Reading Questions – all are fair game for exams.

6. **Do all Practice Questions*** to help you understand concepts 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, help sessions, and office hours (professor’s office hours and/or TA office hours) if you need extra help.
12. 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 examples 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 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 be able to explain these core concepts:

Homeostasis	The internal environment is maintained relatively constant by negative feedback control.
Cell membranes	Cell membranes allow certain substances to enter or leave the cell. Transport through the membrane is a function of cell membrane structure.
Organ systems	Each organ system performs an essential function for the body.
Structure/Function	Structure of an organ or organ system determines its function.
Cause and Effect	The body acts as a machine governed by the principle of cause and effect.
Laws of Science	The functions of the body can be explained by laws of science (e.g. chemistry, physics).
Interaction	Organ systems interact with each other to contribute to and maintain homeostasis.
Communication	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 is required. The Course Pack includes Part 1 and Part 2 bundled together. The Course Pack comes with an access code to “Course Mate”, which includes an ebook of *Human Physiology: From Cells to Systems*, eighth edition, by Lauralee Sherwood. The Course Pack was written by your Professor. It includes partial Lecture Notes (you complete while watching lecture videos), Learning Objectives for each Lecture Topic, Comprehension Checks (questions answered during videos), Study Questions (which you do on your own), and more practice questions (Extra Study Questions and Challenge Questions and Reading Questions) in the Appendix. Keep up with the material in the Course Pack (e.g. by doing the Objectives after the Lecture videos for each day) – it is WAY too much to do immediately before exams.

Textbook – an ebook

PSL 310 changed to an ebook to save students money (the ebook is essentially free). Nothing you are tested on comes directly from the ebook (unless it is specifically assigned reading – i.e. CNS reading or readings for the Challenge Questions and Reading Questions) but it is good to have a digital book to be able to see figures in color and to have as a reference. As mentioned above, access to “Course Mate” comes with 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 can help you. When you create an account at

login.cengagebrain.com you will first need to type in the code that is on the card wrapped in the Course Pack. Then you will be asked to type in a course key. For Hybrid PSL 310 Fall 2016 the course key is **CM-9781133043270-0000087**.

The hard copy textbook is on reserve in the Main Library (several copies but without Course Mate). For students who want their own hard copy text, area bookstores may 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 (https://docs.google.com/document/d/1TiSn4NwSHkIY0_3CSUJmgjIh7zh1BU2H4ErnzS4q5oE/edit) and read the page that listed the technical requirements for Hybrid PSL 310. You must have the requirements listed on that page to successfully watch the online videos and complete the course.

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 contact 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 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 FS16-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 and calendar events 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 cancelation 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 6 hours during the two days before an exam, email Dr. Denison about the problem. Note: this applies to SEVERE problems with D2L (an example of what would not be an instance to contact Dr. Denison – if you have to download a video a few times due to your wireless). 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 – so the email won't be from D2L). 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 which can happen), this should be a good backup plan.

EXAMS

Note: Case Study Session Questions will be included on Unit Exams.

There will be a "Study Guide for the Case Studies for the Unit" posted on D2L in the Unit Materials folder on Thursday of the week of the Case Study sessions for the Unit. This Study Guide will help students prepare for the questions on the Unit exam which cover the Case Studies material.

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 Fall 2016” 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 (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 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 times, 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 it may be possible to arrange an early Friday night exam. An example of a very good reason to take the early Friday night exam would be if an online class schedules an exam during our exam time (and the student was not told this exam time before classes began).

*Students who are grieving a loss or tragedy and need to be absent should follow the MSU Grief Absence Policy using the following link: [MSU's Grief Absence Policy](#). Students with a religious observance request can consult the Office of the Registrar’s website using the following link: [Religious Policy](#).

**If you have any questions about what medical documents you will need, you should contact Dr. Denison by email before 2:00 pm the day of the exam (and include a phone number where you can be reached).

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. During the in-class sessions, 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 immediately below). Students more than 20 minutes late to a Case Study session are not allowed to stay (they can attend another session or the Makeup session – see below).

Makeup Case Study sessions

Students who cannot attend 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 Wednesday 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 the 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) by 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 has a valid excuse for the last Exam.

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 cancelled.

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, Oct. 12, 2016. 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, Oct. 12, 2016.

MAKE SURE YOU DO BOTH – SUBMIT THE HO AGREEMENT AND SIGN UP FOR A PRESENTATION TIME – BEFORE OCT 12 AT 5 PM. Because scheduling for a certain number of people is required (we can't keep changing numbers), students that miss the Oct. 12, 2016 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 may receive a 0.0 in the course and have an Academic Dishonesty Report submitted which is added to the student's academic record.

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 Fall 2016*

Week	Dates	Lecture Topic	Class meeting/Exam	Ebook Readings**
1	8/31	Homeostasis		Chapter 1
	9/1	Membrane Transport		Chapter 3 to pg 79
2	9/5	HOLIDAY		
	9/6-8	Membrane Potentials, CNS***		79-86, Chapter 4 to pg 105
3	9/12-15	Receptors	9/12-14 Case Study sessions	Chapter 6
		(end of Unit 1 material)		
4	9/19		Unit 1 Exam	
	9/20,21	Synapses		105-118
	9/21,22	Reflexes and ANS		Chapter 7 to pg 248
5	9/26	Reflexes and ANS		
	9/27-29	Muscle		248-255, Chapter 8 to pg 292
6	10/3	Smooth and Cardiac Muscle		292-300
	10/4-6	Blood	10/3-5 Case Study sessions	Chapter 11, Chapter 12 to pg 423
		(end of Unit 2 material)		
7	10/10	EXAM	Unit 2 Exam	
	10/11,12	Immunity-B and T Cells		Chapter 12 <u>from</u> pg 423
	10/12,13	Cardiac Physiology		Chapter 9
8	10/17-19	Cardiac Physiology		
	10/19,20	Vascular Physiology		Chapter 10
9	10/24-27	Vascular Physiology	10/24-26 Case Study sessions	
		(end of Unit 3 material)		
10	10/31	EXAM	Unit 3 Exam	
	11/1-3	Respiratory Physiology		Chapter 13
11	11/7	Respiratory Physiology		
	11/8-10	Renal Physiology		Chapter 14
	11/10	Fluid and Ion Balance		Chapter 15
12	11/14-17	Fluid and Ion Balance	11/14-16 Case Study sessions	
		(end of Unit 4 material)		
13	11/21	EXAM	Unit 4 Exam	
	11/22,23	Digestive Physiology		Chapter 16
	11/24	HOLIDAY		
14	11/28	Digestive Physiology		
	11/29,30	Metabolism		704-720
	11/30,12/1	Endocrine System		118-131, Chapter 18
15	12/5	Endocrine System		Chapter 19
	12/6-8	Reproductive Physiology		Chapter 20 to pg 751, 757-774
			12/5-7 Case Study sessions	
16	12/12	Common Final 8:20-9:10 pm	Unit 5 Exam	

* 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 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 Recommended Daily Schedule Fall 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			August 31 Homeostasis 1-3	September 1 Membrane Transport 1-5
2	September 5 HOLIDAY	September 6 Membrane Potentials 1-4	September 7 Membrane Potentials 5-7	September 8 Membrane Potentials 8-10
3	September 12 Receptors 1-3 <u>Case Study Sessions</u> Section 740 – 3:00 pm class Section 741 – 4:40 pm class Section 742 – 6:20 pm class Section 743 – 8:00 pm class Bring printed homework questions <u>with answers</u>. Bring printed case studies.	September 13 Receptors 4-7 <u>Case Study Sessions</u> Section 744 – 3:00 pm class Section 745 – 4:40 pm class Section 746 – 6:20 pm class Bring printed homework questions <u>with answers</u>. Bring printed case studies.	September 14 Receptors 8-10 <i>end of Unit 1 Lectures</i> <u>Case Study Sessions</u> Section 747 – 3:00 pm class Section 748 – 4:40 pm class Section 749 – 6:20 pm class Bring printed homework questions <u>with answers</u>. Bring printed case studies.	September 15 No Lecture! Study Day! You can work on the CNS reading – CNS is on the Unit 1 Exam!
4	September 19 <u>Unit 1 Exam</u> 6:00-6:50 pm E100 Vet Med	September 20 Synapses 1-3	September 21 Synapses 4, 5 Reflexes and ANS 1,2	September 22 Reflexes and ANS 3-5

Week	Monday	Tuesday	Wednesday	Thursday
5	September 26 Reflexes and ANS 6-9	September 27 Muscle 1-4	September 28 Muscle 5-7	September 29 Muscle 8-13
6	October 3 Smooth and Cardiac Muscle 1-5 <u>Case Study Sessions</u> Section 740 – 3:00 pm class Section 741 – 4:40 pm class Section 742 – 6:20 pm class Section 743 – 8:00 pm class Bring printed homework questions <u>with answers</u>. Bring printed case studies.	October 4 Blood 1-3 <u>Case Study Sessions</u> Section 744 – 3:00 pm class Section 745 – 4:40 pm class Section 746 – 6:20 pm class Bring printed homework questions <u>with answers</u>. Bring printed case studies.	October 5 Blood 4-7 <i>end of Unit 2 Lectures</i> <u>Case Study Sessions</u> Section 747 – 3:00 pm class Section 748 – 4:40 pm class Section 749 – 6:20 pm class Bring printed homework questions <u>with answers</u>. Bring printed case studies.	October 6 No Lecture! Study Day!
7	October 10 <u>Unit 2 Exam</u> 6:00-6:50 pm E100 Vet Med	October 11 B + T Cells 1-3 Honors Option Agreement and sign up due before 5 pm TOMORROW for interested Honors College students.	October 12 B + T Cells 4,5 Cardiac Physiology 1	October 13 Cardiac Physiology 2-4

Week	Monday	Tuesday	Wednesday	Thursday
8	October 17 Cardiac Physiology 5-7	October 18 Cardiac Physiology 8-11	October 19 Cardiac Physiology 12,13 Vascular Physiology 1,2	October 20 Vascular Physiology 3-6
9	October 24 Vascular Physiology 7-9 <u>Case Study Sessions</u> Section 740 – 3:00 pm class Section 741 – 4:40 pm class Section 742 – 6:20 pm class Section 743 – 8:00 pm class Bring printed homework questions <u>with answers</u>. Bring printed case studies.	October 25 Vascular Physiology 10, 11 <u>Case Study Sessions</u> Section 744 – 3:00 pm class Section 745 – 4:40 pm class Section 746 – 6:20 pm class Bring printed homework questions <u>with answers</u>. Bring printed case studies.	October 26 Vascular Physiology 12,13 <i>end of Unit 3 Lectures</i> <u>Case Study Sessions</u> Section 747 – 3:00 pm class Section 748 – 4:40 pm class Section 749 – 6:20 pm class Bring printed homework questions <u>with answers</u>. Bring printed case studies.	October 27 No Lecture! Study Day!
10	October 31 <u>Unit 3 Exam</u> 6:00-6:50 pm E100 Vet Med	November 1 Respiratory Physiology 1-4	November 2 Respiratory Physiology 5-8	November 3 Respiratory Physiology 9-12

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

Week	Monday	Tuesday	Wednesday	Thursday
14	November 28 Digestive Physiology 8-12	November 29 Metabolism 1-4	November 30 Metabolism 5 Endocrine 1-3	December 1 Endocrine 4-6
15	December 5 Endocrine 7-9 <u>Case Study Sessions</u> Section 740 – 3:00 pm class Section 741 – 4:40 pm class Section 742 – 6:20 pm class Section 743 – 8:00 pm class Bring printed homework questions <u>with answers</u> . Bring printed case studies.	December 6 Reproductive 1-4 <u>Case Study Sessions</u> Section 744 – 3:00 pm class Section 745 – 4:40 pm class Section 746 – 6:20 pm class Bring printed homework questions <u>with answers</u> . Bring printed case studies.	December 7 Reproductive 5,6 <i>end of Unit 5 Lectures</i> <u>Case Study Sessions</u> Section 747 – 3:00 pm class Section 748 – 4:40 pm class Section 749 – 6:20 pm class Bring printed homework questions <u>with answers</u> . Bring printed case studies.	December 8 No Lecture! Study Day!!!!
16	December 12 <u>Unit 5 Exam</u> 8:20 - 9:10 pm Room will be posted on the D2L calendar and in News NOTE THE LATER TIME FOR OUR “COMMON FINAL” EXAM	December 13 Final Exam Week	December 14	December 15