



Department of Physiology

Frontiers in Physiology PSL 101 – Fall 2021 Syllabus

Credit Hours: 1

Course Modality: Online

Course meeting days and time: None. Students may work on the course materials at any time of the day. However, the course is not self-paced. Students are expected to meet weekly deadlines. Each week of the course runs from Wednesday to Wednesday.

Course location: All lecture videos and assignments will be posted on D2L.

1. Instructor

Dr. Lori Seischab (she/her/hers)

Drop-in office hours:	My drop-in office hours are Mondays and Wednesdays, 10:00 AM – 11:00 AM . To attend office hours, go to my Zoom Personal Meeting Room (https://msu.zoom.us/j/3489538947). When you click on the link, you will be put in my virtual waiting room. When I am done with the previous student, I will let you in. I will not hold office hours on the first day of classes (September 1), Labor Day (September 6), Fall Break (October 25), and the day before Thanksgiving (November 24).
Appointments:	You may use the advising appointment scheduling system to book an appointment related to PSL 101. Go to http://student.msu.edu .
E-mail:	Seischab@msu.edu E-mail is my preferred means of communication. Please put “PSL 101” in the subject line. That helps me scan my crowded inbox to find messages from my class. Please allow at least 1 business day for me to respond.

2. Course Information

2A. Course Description:

Frontiers in Physiology provides an overview of biomedical careers and resources to achieve your career goals. Through weekly reflective writing assignments, you will explore the connections between the skills that employers and admissions committees are looking for and your co-curricular experiences.

Most PSL courses explore the **core concepts** of physiology, including homeostasis, cell membrane, cell-cell communication, interdependence, flow down gradients, energy, and structure/function. In contrast, this course explores the **professional skills** of physiologists, including teamwork, communication, and navigating conflicts. Since medical education research has shown a relationship between reflection and professionalism, most of the homework assignments will be reflective essays. Please see Appendix I for a schematic of the course design.

Reference: [Hoffman LA, Shew RL, Vu TR, Brokaw JJ, Frankel RM. Is Reflective Ability Associated With Professionalism Lapses During Medical School? Academic Medicine. 2016 Jun;91\(6\):853-7.](#)

2B. Course Overview:

When I designed this course, I had several broad goals in mind. By the end of the semester, I want students to be able to

- Compare career paths in physiology and the skills necessary for success in those paths.
- Develop a plan for acquiring those skills.
- Evaluate their progress towards their career goals.

To meet those goals, I have designed course activities that mimic things you will do as a working professional and/or as a successful applicant to a professional school. In particular, we will focus on the skills that are important for careers in health.

Lecture videos

On Wednesday evenings, I will post 1-4 lecture videos for the week. Basically, I have taken the typical 50-minute lecture and broken it into shorter, more manageable segments. While watching the videos, you will stop at various points to work on the lecture assignment.

Lecture assignments (Each lecture assignment is worth 100 points)

The lecture assignments will help you engage with and better understand the lecture content. There will be one lecture assignment per week, not one per video. Often, you will need to watch all that week's videos to complete the lecture assignment. Most weeks, the lecture assignment will be **due on Monday at 5 PM**, unless Monday is a holiday or break. (For example, the first lecture assignment will be due on Tuesday September 7th at 5 PM, because Monday the 6th is Labor Day.)

Lecture assignments are *not* graded on accuracy. Listing an incorrect answer is OK because we learn by recognizing our mistakes. If you follow directions and complete the entire assignment, you will receive full credit.

If you submit a lecture assignment late, you will lose 25 points. The final deadline for submitting late assignments is Friday December 10 (the last day of classes) at 5 PM.

Homework assignments (Each homework assignment is worth 100 points)

The homework assignments will help you reflect on your co-curricular and life experiences. Reflective writing is an important part of admission to health profession schools, so I want you to have lots of practice at it. (Reflective writing applies to other career paths too!)

Some of the homework assignments will give you a chance to apply what you learned in *that* week's lecture videos. Other homework assignments will help you prepare for the *next* week's lecture videos. Thus, the course will work the best if you first watch the videos while completing the lecture assignment, and then tackle the homework assignment. Most weeks, the homework assignment will be **due on Wednesday at 5 PM**.

If you submit a homework assignment late, you will lose 25 points. The final deadline for submitting late assignments is Friday December 10 (the last day of classes) at 5 PM.

Final exam (100 points)

The final exam is simply another writing assignment which will be due during finals week. You do not need to study for it. **To pass the course, you must complete the final exam. The final exam is not optional.** [MSU Final Exam Policy](#)

Makeup assignments (Each makeup assignment is worth 25 points)

If you lose points because you submitted a lecture assignment or a homework assignment late, you may submit a makeup assignment. A list of makeup assignments and the instructions will be posted on D2L. The deadline for submitting makeup assignments is Friday December 10 at 5 PM.

3. Grading Policy

3A. Grade Dissemination:

The grades for each assignment will be posted in the D2L Gradebook. Please check D2L for feedback comments, particularly if you need to resubmit an assignment. For assignments that are turned in on time, I typically grade them within 1 week. For assignments that are turned in late, I grade them as I have time.

3B. Graded Assignments:

This is a Pass / No Grade course. As such, each assignment will be graded in a similar way. For example, if your submission was satisfactory and submitted on time, you will receive 100 points.

The table below describes the meaning of **homework** and **lecture assignment** grades and what you need to do next.

Grade	Description	Action
100	Assignment was satisfactory. Submitted on time.	No further action is necessary.
75	Assignment was satisfactory. Submitted late.	No further action may be necessary. If you have multiple late assignments, you may need to submit make-up assignments to earn a passing grade in the course.
50	Assignment was unsatisfactory. Submitted on time.	Check the feedback, revise the assignment, and resubmit it by December 10 . If your resubmission is satisfactory, I will change your grade to 100.
25	Assignment was unsatisfactory. Submitted late.	Check the feedback, revise the assignment, and resubmit it by December 10 . If your resubmission is satisfactory, I will change your grade to 75. If you have multiple late assignments, you may need to submit make-up assignments to earn a passing grade in the course.
0	Assignment had not been submitted when I posted the grades.	Submit the assignment by December 10 . If your submission is satisfactory, I will change your grade to 75.
--	I have not yet posted grades for the assignment.	Please be patient. I try to grade the assignments within 1 week of the due date. Sometimes I fall behind.

The table below describes the meaning of **make-up assignment** grades

Make-up Assignment Grade	Description	Action
25	Assignment was satisfactory.	No further action is necessary.
0	Assignment was unsatisfactory.	Check the feedback and resubmit the assignment by December 10.
--	I have not yet posted grades for the assignment.	Please be patient. For make-up assignments that are submitted prior to Thanksgiving, I will try to post the grades by December 10.

3C. Course grade:

The table below describes the total possible points you can earn in this course.

Type of assignment	Maximum points per assignment	How many assignments?	Total possible points
Lecture	100	14	1400
Homework	100	11	1100
Final	100	1	100
Sum:			2600 total possible points for the course

The table below describes the points needed to earn a grade of P (pass) for the **course**.

Course grade	Points
P (pass)	2400 - 2600
N (no grade)	0 - 2399

4. Course Materials and Technologies:

4A. Internet resources:

You do not need to purchase a textbook. All resources will be posted on D2L. Below are some of the websites you may be using in the course, and hopefully beyond the course.

- [AAMC core competencies for entering medical students](#)
- [Khan Academy](#)
- [AAMC postbaccalaureate premedical programs](#)
- [MIT Career Development Handbook](#)
- [Aspiring Docs](#)
- [American Physiological Society](#)
- [Explore Health Careers](#)
- [iBioSeminars](#)
- [MSU Career Services Network](#)
- [MSU Center for Community and Engaged Learning](#)
- [MSU Physiology research](#)
- [Pathways to Science](#)
- [USA Jobs](#)

4B. Required Technologies:

- The course requires access to high speed internet, which would enable you to watch the lecture videos.
- I will post course materials to D2L and you will submit your assignments to D2L as well. Please check to make sure you are using a D2L compatible browser here:
https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm

4C. Course platform:

This course will be delivered **online**. You will need your MSU NetID to login to the course from the **D2L homepage (<http://d2l.msu.edu>)**. In D2L, you will access lecture videos, lecture assignments, homework assignments, and links to other internet resources. You will submit all assignments via D2L.

4D. Technical Assistance:

If you need technical assistance at any time during the course or to report a problem, you can:

- Visit the MSU Help site at <http://help.msu.edu>
- Visit the Desire2Learn Help Site at <http://help.d2l.msu.edu>
- Call the MSU IT Service Desk at (517)432-6200, (844)678-6200, or e-mail at ithelp@msu.edu

5. Course Policies

5A. Learning Continuity Statement:

If you become unable to participate in class for an extended time due to COVID-19 related circumstances:

- You are expected to e-mail me as soon as you are able.
- In most cases, the regular course policies related to grading and make-up assignments will apply.
- In extraordinary cases, I will work with the student to devise a reasonable pathway for successfully completing the course.

5B. Course Continuity Statement:

If I become unable to run the course for an extended time:

- Students will receive an e-mail from me or Dr. Olson regarding any changes to the course.
- Typically, assignments that are submitted on-time will be graded within approximately 1 week. If I become unable to run the course, grading times might take longer.

5C. Intellectual property policy:

As members of a learning community, students are expected to respect the intellectual property of the instructor. All course materials presented to students are the copyrighted property of the course instructor and are subject to the following conditions of use:

1. Students may not post the recordings or other course materials online or distribute them to anyone not enrolled in the class without the advance written permission of the course instructor and, if applicable, any students whose voice or image is included in the recordings.
2. Any student violating the conditions described above may face academic disciplinary sanctions.

5D. Course accommodations:

Michigan State University is committed to providing equal opportunity for participation in all programs, services, and activities. Requests for accommodations by persons with disabilities may be made by contacting the Resource Center for Persons with Disabilities at 517-884-RCPD or on the web at <http://rcpd.msu.edu>. Once your eligibility for an accommodation has been determined, you will be issued a verified individual services accommodation ("VISA") form. Please present this form to me at the start of the term and/or two weeks prior to the accommodation date. Requests received after this date will be honored whenever possible.

5E. Inclusion

"MSU welcomes a full spectrum of experiences, viewpoints, and intellectual approaches because they enrich the conversation, even as they challenge us to think differently and grow. However, we believe that expressions and actions that demean individuals or groups compromise the environment for intellectual growth and undermine the social fabric on which the community is based." -MSU Faculty Senate 2017.

During all course activities, let us all strive to:

- **Remain open.** Ask yourself, am I being judgmental? Have I stopped listening?
- Be mindful of **intent and impact.** Ask yourself, did they intend to hurt me? Was the impact of my words hurtful?

All skills can be practiced, and with practice we improve. Let us dedicate this semester to intentionally practicing inclusion skills.

6. Course Schedule

The table below describes the weekly activities including week number, topic, lecture assignment, homework assignment, and due dates. **Yellow highlighting** indicates an unusual due date. All dates are tentative and subject to change at my discretion.

Week	Dates	Topic	Lecture assignment (Due Monday, 5 PM)	Homework assignment (Due Wednesday, 5 PM)
1	Sept 1-8	Course goals & Reflection rubric	#1 Rubric examples • Due Tues Sept 7	#1 Essay scoring • Due Sept 8
	Sept 6	Labor Day – University closed		
2	Sept 8-15	Reflective writing	#2 Dissecting the essay • Due Sept 13	#2 How do you study? • Due Sept 15
3	Sept 15-22	Retrieval and other study skills	#3 Data on retrieval • Due Sept 20	#3 Do something new • Due Sept 22
4	Sept 22-29	Physiology careers and translational skills	#4 Inventory of skills • Due Sept 27	#4 O-Net • Due Sept 29
5	Sept 29-Oct 6	Resume writing	#5 Resume review • Due Oct 4	#5 Revised resume • Due Oct 6
6	Oct 6-13	Competencies for careers in health	#6 Self-assessment • Due Oct 11	#6 Three perspectives • Due Oct 13
7	Oct 13-20	Problem solving, navigating conflicts, and stress management	#7 Values and hot buttons • Due Oct 18	#7 Stress management • Due Oct 20
8	Oct 20-28	Teamwork	#8 Teamwork • Due Wed Oct 27	#8 Bias in health care • Due Thurs Oct 28
	Oct 25-26	Fall Break		

9	Oct 27-Nov 3	Cultural competence	# 9 Quality and culture • Due Nov 1	#9 Mistake essay • Nov 3
10	Nov 3-10	Mistakes in medicine & Responsible conduct of research	# 10 Roles in RCR • Due Nov 8	#10 Communication fail • Due Nov 10
11	Nov 10-17	Research careers	#11 Research skills • Due Nov 15	No HW assignment
12	Nov 17-24	Gap year opportunities	# 12 Things to consider • Due Nov 22	#11 SWOT and 4-year plan • Due Nov 24
	Nov 25-28	Thanksgiving break – University closed		
13	Nov 24-Dec 1	Interviewing	#13 Interview prep • Due Wed Dec 1	No HW assignment
14	Dec 1-8	Multiple Mini Interviews & Situational judgment tests	#14 MMI prep • Due Wed Dec 8	No HW assignment
Friday December 10 is the final deadline for all lecture, homework, and make-up assignments.				
Final	Dec 13-17	The final exam will be posted to D2L on Monday Dec. 13 and due Friday Dec 17 at 5 PM . If you do not submit the final assignment, you will receive an N (No grade) for the course.		

APPENDIX I – Course design

