

# Phar 6720: Pharmaceutical Care Skills Lab II

Course Syllabus Spring 2020  
2 Credits

This course adheres to the [University of Minnesota College of Pharmacy Central Syllabus](#). Students are required to be familiar with and adhere to all required UMN and CoP policies.

## Meeting Times & Locations

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	Day	Time	TC Room	Duluth Room
Discussion	Tuesday	8:00-9:55am	WDH 7-135	410 Lib
Lab Section 002 (TC & D)	Thursday	8:00-9:55am	WDH 3-150	216 LSci
Lab Section 003 (TC & D)	Thursday	10:10am-12:05pm	WDH 3-150	216 LSci
Lab Section 004 (TC only)	Thursday	1:25-3:20pm	WDH 3-150	--
Lab Section 005 (TC only)	Thursday	3:35-5:30pm	WDH 3-150	--

**Course Website:** <http://canvas.umn.edu>

## Course Instructional Team

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### Course Directors

Jennifer Chen, PharmD, BCACP

Office: WDH 3-150C

Phone: 612-624-2544

Email: [chen0666@umn.edu](mailto:chen0666@umn.edu)

Preferred method of contact: Email

Available: Tuesday-Thursday by appointment

Anthony Olson, PharmD, MEd

Office: LSci 221

Phone: 218-726-6026 \*(shared w/ Dr. Bastianelli)

Email: [olso2001@umn.edu](mailto:olso2001@umn.edu)

Preferred method of contact: Email

Available: Tuesday-Thursday by appointment

### Teaching Assistants

See course website for roster and contact information.

## A Note from the Course Instructional Team

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It has been a pleasure to be a part of your pharmacy school curriculum. We are hopeful that you will continue to acquire new skills and hone old skills from the PCLC lab such that you may relate lab activities to “real life” situations as an intern and beyond. Building relationships with patients has always been an important aspect of our professional philosophy and we look forward to our continued progress towards this. While it is best to schedule an appointment, please feel free to stop in the office any time the door is open. You may also contact us by e-mail or phone. If you should need to alert us of an illness or a family emergency, please contact us as soon as you are safely able.

## PCLC Central Syllabus

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This course adheres to the PCLC Central Syllabus, available on the course website. Students are responsible for the content of the PCLC Central Syllabus, in addition to the content of this syllabus. Additional information specific to this course is below.

## Overview of the Course

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See the PCLC Central Syllabus for Overview of the PCLC, Course Content, Course Format, Discussion Section, Lab Sections, and Expected Workload.

### Team Based Learning

Discussions may be conducted using a modified Team Based Learning (TBL) approach. TBL is an active learning teaching strategy that assists students in learning how to apply course concepts. At the beginning of the year, we will distribute a survey to collect students’ demographic data, previous experience, and strengths. Each student will then be assigned a group intentionally created to maximize the diversity, spectrum of experiences, and balance of strengths within a team.

In our modified TBL, students are expected to review material from previous labs and discussions prior to class. Students are expected to come to class prepared and will be held accountable for that preparation via the Readiness Assurance Process (RAP) and peer evaluations. The RAP includes an individual readiness assessment test (iRAT) and a re-taking of the same test as a student team. After each team readiness assessment test (tRAT), a team may appeal an answer by writing down the reason and support for their answer choice. This must occur and be given to the instructor during the 5 minutes before any large group discussion occurs. Only teams which appeal may be granted credit for successful appeals.

Students will complete self and peer evaluations at a midpoint and end of the semester. Assessing your team members’ strengths and weaknesses is a critical piece of TBL. Peer evaluation also helps you prepare to assess peer pharmacists, technicians or others who you will manage in future practice. The evaluations may have one rating for completion and another rating based off their peers’ evaluations for each period. Giving a peer a perfect score when their contribution does not merit it does not help that person change behavior and harms the team. The online evaluations will be anonymous; however, we encourage an open discussion about team performance, and welcome any teams or team members to meet with course directors to discuss their performance at any time.

### Online Book Club

Students will be reading *The Immortal Life of Henrietta Lacks* by Rebecca Skloot and participating in an online book club on the course website. Throughout the semester, students will be expected to make two thoughtful online discussion posts and respond to final reflection questions. For each online discussion, students are

expected to make two thoughtful comments on peers' posts. One rating will be assigned to each online discussion and the final reflection questions. Students must thoughtfully complete all components of each online discussion and the final reflection questions to receive full credit.

## Prerequisites

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- Students must be enrolled in the Pharm.D. program
- Students must have successfully completed Pharmaceutical Care Skills Lab I and Foundations of Pharmaceutical Care
- Students must be concomitantly registered in all required PD1 courses

## Course Goals & Objectives

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The courses included in the pharmaceutical care learning center curriculum span over five semesters. These courses build steadily on each other, until students have reached all of the goals for each course. Course goals for 6720 are listed below:

### Pharmacists' Patient Care Process (PPCP)

- Explain and apply the [Pharmacists' Patient Care Process \(PPCP\)](#) in various pharmacy settings

### Patient Care

- Collect information to identify a patient's drug (medication) therapy problems and health-related needs in cases with one to three simple conditions
  - Interview a patient
  - Obtain a current medication list
  - Obtain an accurate medication history
- Assess information to determine the effects of medication therapy and prioritize health related needs
  - Evaluate patient immunization status and recommend any necessary vaccines
- Identify drug (medication) therapy problems by assessing medications for indication, effectiveness, safety, and convenience (IESC)
- Establish patient-centered goals in collaboration with the patient, caregiver(s), and other health professionals that is evidence based and cost-effective
- Identify the potential impacts of cultural variations and health care disparities in patient care
- Appropriately educate patients on their medication therapy and assess for patient understanding
- Develop and implement an individualized and clinically appropriate care plan for a patient with one to three simple conditions in collaboration with the patient, caregivers, and other health professionals including follow-up and monitoring
- Exhibit empathy in all patient interactions
- Appropriately administer immunizations to patients

### Extemporaneous Compounding

- Demonstrate proficiency in a complement of basic skills related to sterile and non-sterile compounding.
  - Sterile:
    - Evaluate prescriptions for Indication, Effectiveness, Safety, and Convenience (IESC), including safety parameters specific to parenteral preparations
    - Demonstrate aseptic technique compliant with USP 797 (personal prep, cleaning hood, vial to bag, reconstitution, syringe) for a preparation with one to two manipulations
    - Accurately prepare sterile products while considering IV compatibility

- Non-sterile:
  - Evaluate prescriptions for Indication, Effectiveness, Safety, and Convenience (IESC)
  - Demonstrate appropriate use of a torsion balance
  - Demonstrate and be able to appropriately apply non-sterile compounding techniques: spatulation, levigation, trituration, geometric dilution

### Practice Management

- Demonstrate ability to dispense a prescription in outpatient and inpatient settings, including:
  - Identifying if a prescription contains all legally required components
  - Appropriate labeling
  - Appropriate packaging
- Apply evidence based practice skills in developing a plan to address a patient's drug-related needs.
- Compare and contrast cost effective drug options and consider patient-specific needs.

### Professionalism

- Exhibit professional behavior
- Recognize the responsibility to provide service to communities
- Accept the responsibility of life-long learning and self-reflection
- Improve own learning and peers' learning via peer-evaluations

## Course Materials and Requirements

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See the PCLC Central Syllabus for information on the Course Website, Computer / Technology Requirements, and a Quick Note About Top 200 Drugs. Note that students **will** need a manual sphygmomanometer and stethoscope in this and following lab courses.

### Textbooks

Required eReserve text:

- Elder, DL. *A Practical Guide to Contemporary Pharmacy Practice and Compounding*. 4th ed. Philadelphia: Wolters Kluwer; 2018; (Instructors strongly encourage print text as source of reference throughout career.)

Required books to purchase:

- Skloot R. *The Immortal Life of Henrietta Lacks*. Crown Publishing Group, 2010.
- Krinsky, et al. *Handbook of Nonprescription Drugs*, 19th Edition. APhA, 2017/2018.

Optional texts:

- Available electronically:
  - Cipolle RJ, Strand LM, Morley PC. *Pharmaceutical Care Practice*, 3rd Edition. McGraw Hill; 2012 (required text for Pharmaceutical Care)
  - A current patient assessment/physical assessment text (such as Jones/Rospond)
  - A current pharmacotherapy text (such as DiPiro or Zeind/Carvalho)
- Available in the PCLC Lab or can be purchased for personal use
  - A current sterile compounding text (such as Ochoa/Vega or Buchanan)
  - A current pharmaceutical calculations text (such as Ansel/Stockton)
  - A current immunization text (such as APhA's Handbook)
  - A medical abbreviation text

## Course Policies

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See the PCLC Central Syllabus for policies on Professionalism, Lab Attendance, and Tardiness. Note that the tardiness policy applies to both lab and discussion in this course.

See the PCLC Central Syllabus for policies on Communication, Student Academic Integrity and Scholastic Dishonesty (Honor Code), Dress and Behavior Code, Reference Books, Disruptive Behavior, Safety and Cleanliness, Use of the Learning Center, and Participation and Communication between Campuses via ITV.

## Assessments and Grading

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Refer to the PCLC Central Syllabus for definitions of ratings in the “S+, S, S-, U” system, and policies on regrade requests and the PCLC Award for Excellence.

### Graded Assessments and Assignments

The following graded assessments and assignments will count toward your final grade for this course:

Date	Assignment/Assessment	Rating	# of ratings
Weekly	Lab* <ul style="list-style-type: none"><li>• 3 ratings per lab</li></ul>	S+, S, S-, U	27
Weekly	Discussions* <ul style="list-style-type: none"><li>• 3-4 ratings per discussion, on average</li></ul>	S+, S, S-, U	Up to 39
2/11, 3/17, 4/14, 4/21	Online book club** <ul style="list-style-type: none"><li>• First post &amp; 2 comments due 2/11 (through Part 1)</li><li>• Second post &amp; 2 comments due 3/17 (through Part 2)</li><li>• Finish book before Discussion on 4/14<ul style="list-style-type: none"><li>• Final reflection due 4/21 (rest of book and discussion)</li></ul></li></ul>	S+, S, S-, U All papers, posts and comments must be thoughtful for credit	3
4/14	Online Calculations Exam**	S+, S, U	1
4/9 or 4/16	Focused Assessments**	S+, S, S-, U	3
4/23	Lab Practicals**	S+, S, S-, U	4
5/2	Immunizations** <ul style="list-style-type: none"><li>• Pre-lab Quiz</li><li>• In-class participation</li><li>• IM &amp; SQ injections</li></ul>	S+, S, S-, U	3

\* Please see the Course Schedule for the full outline of labs and discussions

\*\* Please see course website for more information

### Minimum Competency

Students are required to obtain a minimum competency level demonstrated by earning an S or S+ rating on all final lab practicals. Obtaining a U or S- rating on any final practical will require completion of a minimum competency activity to be determined by the course director. Students will have one attempt to successfully complete this activity. Failure to do so will result in failure of the course. All U and S- ratings obtained during practicals will still be reflected in the final course grade.

Course directors have the authority to request meeting with students who are not performing to expectations throughout the semester. In this course, course directors will reach out to students who exceed the number of S- ratings (excluding pre-lab ratings) in the table below. As per the PCLC Central Syllabus, students are expected to contact the course director at any time during the semester if they are experiencing difficulties in the course.

Non-sterile Compounding Labs	Sterile Compounding Labs	Patient Care Labs	Immunizations	Calculations
2	2	2	0	0

### Final Course Grade

This course is graded on an S/N system. In the Pharmaceutical Care Skills Lab courses, students must earn an S or S+ on 80% or more of the up to 71 total ratings to pass the course (i.e. 63 out of 78 ratings). **More than 1 U rating will result in failure of the course.**

### Statement on Extra Credit

No extra credit will be offered in this course.