Meeting Time, Place, Credits

Target audience: PD1 students  
Credits: 2  
Course Web Site: https://canvas.umn.edu  
Term: Spring 2019  
Dates: 1/16/19-5/10/19  
Locations and Times:

<table>
<thead>
<tr>
<th></th>
<th>Scheduled Days &amp; Times</th>
<th>TC Room</th>
<th>D Room</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discussion</td>
<td>Tuesday 8:00-9:55am</td>
<td>WDH 7-135</td>
<td>410 Lib</td>
</tr>
<tr>
<td>Lab Section 002</td>
<td>Thursday 8:00-9:55am</td>
<td>WDH 3-150</td>
<td>216 LSci</td>
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<td>(TC and D)</td>
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<tr>
<td>Lab Section 003</td>
<td>Thursday 10:10am-12:05pm</td>
<td>WDH 3-150</td>
<td>216 LSci</td>
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<tr>
<td>(TC and D)</td>
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<tr>
<td>Lab Section 004</td>
<td>Thursday 1:25-3:20pm</td>
<td>WDH 3-150</td>
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<td>(TC only)</td>
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<tr>
<td>Lab Section 005</td>
<td>Thursday 3:35-5:30pm</td>
<td>WDH 3-150</td>
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<td>(TC only)</td>
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Course Instructional Team

Course Team
Karen Bastianelli, PharmD, BCACP  
Office: LSci 221  
Phone: 218-726-6026  
Email: bast0067@d.umn.edu  
Preferred method of contact: Email  
Available: Monday 1pm-3:30pm, Tuesday and Thursday 8am-3:30pm by appointment

Jennifer Chen, PharmD, BCACP  
Office: WDH 3-150C  
Phone: 612-624-2544  
Email: chen0666@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

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

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.

Overview of the course

Course content:
This course is designed for first year pharmacy students to further introduce the profession and continue building the skills necessary to become a competent and caring pharmaceutical care practitioner. The course consists of two components: a laboratory section and a discussion. Students will also read and participate in an online book club on *The Immortal Life of Henrietta Lacks* by Rebecca Skloot.

Course format:
Pharmaceutical Care Skills Lab II comprises two distinct but integrated sections: lab and discussion. Each student must register for the discussion and one laboratory section on their respective campus. The course directors on each campus work closely to ensure similar experiences, expectations, and assessments on both campuses.

Students must refer to the Course Schedule posted on the course website in order to be prepared each week for lab and discussion. **It is NECESSARY AND ESSENTIAL for all students to read through material and complete assignments prior to coming to lab and discussion.** All activities are intentionally integrated and sequenced into the curriculum; therefore, all activities must be completed in order to progress through the program. Authorization may be pre-arranged with the course director in regard to making up a missed activity due to an excused absence.

Discussion Section
The discussion for the class meets once a week for 1 hour and 55 minutes. The purpose of the discussion is to provide an orientation and introduction to selected pharmacy topics and to facilitate discussions of patient care skills. Discussion is a required, essential component of this course. The discussion may include, but is not limited to, small or large group active learning exercises, discussions, or team based learning (TBL). Activities in discussion may be graded based on content or participation, so attendance is critical for your grade.

Discussions may be conducted using a Team Based Learning (TBL) approach. TBL is an active learning teaching strategy that assists students in learning how to apply course concepts. 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. The evaluations will have one rating for completion and another rating based off their peers’ evaluations for each period. Peer assessment helps you prepare to assess peer pharmacists, technicians or others who you will manage. 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.

Lab Sections
Each lab section will meet for 2 hours. Each laboratory section may be further divided into smaller working groups. Labs will occur on a 3-week rotating schedule.
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 a final reflection. For each online discussion and the final paper, 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 final reflection to receive full credit.

Expected Workload
While every student is different, and workload may vary by week, the average expected amount of time spent outside of class for this course is 2.5 hours per week for lab and 1 hour per week for discussion. If you find you are consistently spending significantly more than the expected time preparing for class, please see the course director.

Prerequisites

- Students must be enrolled in the Pharm.D. program
- Students must know the goal of the Pharm.D. program in Minnesota is to develop a competent generalist practitioner, and how a generalist practitioner is defined.
- Students should be committed to becoming a competent generalist practitioner who assumes responsibility and is willing to be held accountable for their patients' medication outcomes.
- Students must have successfully completed Pharm Care Skills Lab I and Foundations of Pharmaceutical Care
- Students must be concomitantly registered in all required PD1 spring courses

Computer/Technology Requirements

Students must have ability to access course materials and submit online assignments during lab and discussion.

Course Goals & Objectives

The courses included in the pharmaceutical care learning center curriculum span over six 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 PPCP in various pharmacy settings

Patient Care
- Successfully perform a comprehensive patient assessment, including:
  - Interviewing a patient
  - Obtaining current medication list
  - Obtaining accurate medication history
  - Demonstrate ability to evaluate patient immunization status and recommend any necessary vaccines
- Be patient-centered and empathetic; sensitive to patients’ needs
- Identify drug therapy problems by evaluating drugs for indication, effectiveness, safety, convenience (IESC)
- Develop individualized and clinically appropriate care plans for a patient with one to three simple conditions
- Effectively document patient interactions using Care Plans
- Be cognizant of cultural variations and potential impact on health care
- Appropriately educate patients on their drug therapy and assess for patient understanding
- Communicate effectively with all patients and their families
- Accept responsibility of providing continuing care to their patients
• Demonstrate ability to properly use and interpret select point of care screening technology (glucometers, CardioChek Plus, A1c DCA Vantage)
• Demonstrate appropriate intramuscular and subcutaneous injection techniques

Extemporaneous Compounding
• Demonstrate proficiency in a complement of basic skills related to sterile and non-sterile compounding.
  o Sterile:
    ▪ Evaluate prescriptions for IESC, including safety parameters specific to parenteral preparations (stability, sterility, concentration, compatibility, administration rate and route)
    ▪ Demonstrate aseptic technique compliant with USP 797 (personal prep, cleaning hood, vial to bag, reconstitution, syringe) for a preparation with one to two manipulations
    ▪ Demonstrate additional aseptic technique compliant with USP 797 for products with more than two manipulations or requiring additional techniques and equipment (TPNs, ampuls, etc)
  o Non-sterile:
    ▪ Evaluate prescriptions for IESC
    ▪ Demonstrate appropriate use of torsion balance
    ▪ Demonstrate and be able to appropriately apply non-sterile compounding techniques: levigation, trituration, geometric dilution
    ▪ Demonstrate additional non-sterile compounding skills (gels, eutectics, suppositories)

Practice Management
• Demonstrate ability to dispense a prescription in outpatient and inpatient settings, including:
  o Identifying if a prescription contains all legally required components
  o Appropriate labeling
  o Appropriate packaging
  o Appropriate documentation
• Apply DLE 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.
• Work within legal implications of point of care screenings.
• Work within legal requirements of providing immunizations.

Professionalism
• Exhibit professional behavior
• Recognize the responsibility to provide service to communities
• Accept the responsibility of lifelong learning and self-reflection
• Improve own learning and peers’ learning via peer evaluations

Attendance and Tardiness Policy

Refer to PCLC Centralized Syllabus. Note that the tardiness policy applies to both lab and discussion in this course.

Course Materials

Textbooks
Required eReserve text:

Required books to purchase:
Optional texts:
- A current patient assessment/physical assessment text (such as Jones/Rospond)
- A current pharmacotherapy text (such as DiPiro or Koda-Kimble)
- A current sterile compounding text (such as Ochoa/Vega or Buchanan)

Supplies
Required supplies to purchase, available online, at medical supply stores, or at the University Bookstore:
- Blood pressure cuff with manual sphygmomanometer
- Stethoscope

Course Website
This syllabus, as well as all of the details of the course, including schedules, pre-lab and pre-discussion activities, an overview of each activity, sample grading sheets, etc. can be found on the course website. Course announcements will also be posted on this site as necessary. It is required that students check the website at least once a week. **Students will need to access this site to find and complete assignments prior to coming to discussion and lab each week.**

Assessments and Grading

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

<table>
<thead>
<tr>
<th>Date</th>
<th>Assignment/Assessment</th>
<th>Rating</th>
<th># of ratings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly</td>
<td>Lab*</td>
<td>S+, S, S-, U</td>
<td>27</td>
</tr>
<tr>
<td>Weekly</td>
<td>Discussions*</td>
<td>S+, S, S-, U</td>
<td>Up to 39</td>
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<td>• 1-3 ratings per discussion</td>
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<tr>
<td>2/12, 3/12, 4/16, 4/23</td>
<td>Online book club**</td>
<td>S+, S, S-, U</td>
<td>3</td>
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<td>• First post &amp; 2 comments due 2/12 (through Part 1)</td>
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<td>• Second post &amp; 2 comments due 3/12 (through Part 2)</td>
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<td>• Finish book before Discussion on 4/16</td>
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<td>• Final reflection due 4/23 (rest of book and discussion)</td>
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<tr>
<td>4/16</td>
<td>Online Calculations Exam**</td>
<td>S+, S, U</td>
<td>1</td>
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<tr>
<td>4/11 or 4/18</td>
<td>Focused Assessments**</td>
<td>S+, S, S-, U</td>
<td>3</td>
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<tr>
<td>4/25</td>
<td>Lab Practicals**</td>
<td>S+, S, S-, U</td>
<td>4</td>
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<tr>
<td>5/2</td>
<td>Immunizations**</td>
<td>S+, S, S-, U</td>
<td>3</td>
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<tr>
<td></td>
<td>• Pre-lab Quiz</td>
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<td>• In-class participation</td>
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<td></td>
<td>• IM &amp; SQ injections</td>
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* Please see the Course Schedule for the full outline of labs and discussions
** Please see course website for more information
**Online Calculations Exam**
Students are responsible for completing an online calculations assessment with a score of 100%. The exam will have 15 items which review the concepts covered in Phar 6728: Pharmaceutical Calculations. The assessment will be delivered online and will open early in the semester. Students are allowed as many attempts on the exam as they need to pass. Students must pass the exam by the date it closes prior to the end of the semester; failure to pass the exam will result in a U grade. The exam must be retaken and passed prior to the end of the semester in order to pass the course. If students earn a perfect score on their first attempt, they earn an S+ grade for the exam. Be sure to completely read the directions on the online quiz; do not round until your final answer. If necessary to round prior to the final answer, keep 5 decimal places. Submissions are not hand graded.

**Grading Information**

**Refer to PCLC Central Syllabus for definitions of ratings in the “S+, S, S-, U” system**

**Minimum Competency**
Maximum number of S- ratings (excluding pre-lab ratings) allowed before re-demonstration of minimum competency will be required are listed in the table below. Note that any student who earns an S- on timed activities during practicals will also be required to demonstrate minimum competency regardless of the number of S- ratings in that category for the semester.

<table>
<thead>
<tr>
<th>Non-sterile Compounding Labs</th>
<th>Sterile Compounding Labs</th>
<th>Patient Care Labs</th>
<th>Immunizations</th>
<th>Calculations</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2</td>
<td>2</td>
<td>0</td>
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</table>

**Minimum Passing Level**
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 80 total ratings to pass the course (i.e. 64 out of 79 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.

**University of Minnesota and College of Pharmacy Policy Reference (Central Syllabus)**

Students are required to be familiar with all required UMN and CoP policies, e.g., Academic Freedom; Copyright; Course Evaluations; Disability Accommodations; FERPA, etc.

**Additional Policies**

Additional PCLC policies are found in the PCLC Central Syllabus on the course website.