

PHA5164L: Professional Skills Laboratory 4

Spring 2023

1 Credit Hour – A-E Grading

This course continues the development of essential skills a pharmacist is expected to perform in daily practice. The skills emphasized during this course include gathering patient data, assessing the information to identify problems, developing an individualized care plan, implementing the care plan and monitoring and evaluating a patient. Additional skills include sterile compounding, collaborating as an interprofessional team member, safe and accurate dispensing of medications and contributing to a culture of safety and improvement. The focus is caring for patients with gastrointestinal, renal, and endocrine diseases with problems that are simple to moderate in complexity. The patient care skills and tasks taught in this course will prepare you to enter into hospital practice settings during your Hospital Introductory Pharmacy Practice Experience (HIPPE) and care for more complex patients in all settings.

Teaching Partnership Leader

Janet Schmittgen, Pharm.D.

Email: jschmittgen@cop.ufl.edu

Office: HPNP2335

Phone: 352-273-9547

Office Hours: By appointment ONLY for private meetings, Zoom office hours TBA

See Appendix A. for Course Directory of Faculty and Staff Contact Information.

Entrustable Professional Activities

This course will prepare you to perform the following activities which the public entrusts a Pharmacist to perform:

Patient Care Provider Domain

1. Collect information to identify a patient's medication-related problems and health-related needs.
2. Analyze information to determine the effects of medication therapy, identify medication-related problems, and prioritize health-related needs.
3. Establish patient-centered goals and create a care plan for a patient in collaboration with the patient, caregiver(s), and other health professionals that is evidence-based and cost-effective.
4. Implement a care plan in collaboration with the patient, caregivers, and other health professionals.
5. Write a note that documents the findings, recommendations, and plan from a patient encounter.

Interprofessional Team Member Domain

6. Collaborate as a member of an interprofessional team.

Population Health Promoter Domain

7. Identify patients at risk for prevalent diseases in a population.
8. Minimize adverse drug events and medication errors.
9. Maximize the appropriate use of medications in a population.

Information Master Domain

11. Educate patients and professional colleagues regarding the appropriate use of medications.

Practice Manager Domain

13. Oversee the pharmacy operations for an assigned work shift.
14. Fulfill a medication order.

Course-Level Objectives

Upon completion of this course, the student will be able to:

1. Demonstrate appropriate and safe sterile compounding technique with a variety of sterile compounded medications.
2. Accurately complete calculations related to sterile compounded medications.
3. Accurately calculate the "Beyond Use Date" for sterile compounded medications and verify compounded Sterile Products.
4. Accurately verify orders in an EHR in the inpatient setting.
5. Utilize an electronic health record (EHR) to collect relevant information for a specific patient and disease state to assess appropriateness of drug therapy.
6. Perform discharge counseling.
7. Present a succinct oral patient summary and therapeutic plan recommendations to another healthcare provider.
8. Communicate with other healthcare professionals verbally and in the EHR.
9. Document patient care recommendations and interventions in the EHR.
10. Formulate a therapeutic plan, including nonpharmacological options, for patients with changing kidney function, diabetes, or who is pregnant or breastfeeding.
11. Defend a therapeutic plan in writing and verbally using guidelines and primary literature for patients at risk for or with the following disease states:
 - a. Acute kidney injury
 - b. Diabetes
 - c. Diabetic Ketoacidosis
 - d. Pregnancy/Breastfeeding
 - e. Prevention of Pregnancy
12. Counsel a patient on a therapeutic plan.
13. Apply cost-benefit, formulary, and/or epidemiology principles to medication-related decisions.
14. Follow an evidence-based disease management protocol.
15. Interpret laboratory test results.
16. Find and interpret clinical evidence in the literature for using medication during pregnancy and lactation
17. Compare and contrast contraceptive options and pregnancy testing devices, including emergency contraception and contraception post-partum.
18. Critically evaluate a primary literature article and apply finding to patient cases.
19. Demonstrate attributes that promote a professional therapeutic relationship (e.g. empathy, cultural competency) when communicating with a patient and/or their family.
20. During all skills laboratory simulations and activities:
 - a. Demonstrate altruism, integrity, trustworthiness, flexibility, and respect in all interactions.
 - b. Display preparation, initiative, and accountability consistent with a commitment to excellence.
 - c. Deliver patient-centered care in a manner that is legal, ethical, and compassionate.
 - d. Recognize that one's professionalism is constantly evaluated by others.

Course Pre-requisites

Completion of coursework in the first three semesters of the Doctor of Pharmacy program

Course Co-requisites

PHAR 5933: Sterile Compounding

PHAR 5784: Patient Care 4- GI/Renal

PHAR 5785: Patient Care 5 – Endocrine/Women's Health/Men's Health

Course Outline

See Appendix. Please routinely check your campus calendar and the Canvas course site for any messages about changes in the schedule including meeting dates/times, deadlines, and room changes.

For locations and times of lab sessions, view Appendix B Lab Location & Sessions.

Required Textbooks/Readings

There are no required textbooks for this course.

Suggested Textbooks/Readings

There are no suggested textbooks for this course.

Other Required Learning Resources

Top 300 Drugs Flashcards

- The flashcards are available for free through Access Pharmacy:
<http://accesspharmacy.mhmedical.com/qa.aspx#tab5>

EHR Go

- EHR Go is an educational EHR used throughout the PharmD curriculum, including in skills lab, patient care courses and capstones. Students will be expected to purchase a subscription to this program.
- Create your EHR Go account by going to: <http://ehrgo.com>. Select **Subscribe** in the upper, right corner and enter the following Pharmacy Student Program Key: **S96Y29**
- Follow the on-screen instructions to create your account and apply your subscription. Refer to Canvas for more detailed information
 - 2PDs are encouraged to purchase a 2 year Student Subscription
 - 3PDs are encouraged to purchase an Academic Year Student Subscription

Materials & Supplies Fees

\$42.91 per student

Student Evaluation & Grading

Table 1.1 Evaluation and Grading

Assessment Item	Grade Percentage
Weekly Pre-Lab Quizzes (n=10; 2% each)	20%
Weekly Performance Assessment (n=13; 5% each)	65%
Top 200 Drug Exam	15%
Total	100%

Table 1.2 Grading Scale

Percentage	Letter Grade
92.50-100%	A
89.50-92.49%	A-
86.50-89.49%	B+
82.50-86.49%	B
79.50-82.49%	B-
76.50-79.49%	C+
72.50-76.49%	C
69.50-72.49%	C-
66.50-69.49%	D+
62.50-66.49%	D
59.50-62.49%	D-
< 59.50%	E

Rounding of grades:

Final grades in Canvas will be rounded to the 2nd decimal place. If the decimal is X.495 or higher, Canvas will round the grade to X.50. The above scale depicts this policy and grades are determined accordingly. Grade assignment is made using this policy and NO EXCEPTIONS will be made in situations where a student's grade is "close."

Educational Technology Use

The following technology below will be used during the course and the student must have the appropriate technology and software.

1. ExamSoft™ Testing Platform
2. Canvas™ Learning Management System

For technical support, navigate to [Educational Technology and IT Support Contact Information](http://curriculum.pharmacy.ufl.edu/current-students/technical-help/) at this URL:
<http://curriculum.pharmacy.ufl.edu/current-students/technical-help/>

Pharm.D. Course Policies

The Policies in the following link apply to this course. Review the [Pharm.D. Course Policies](http://curriculum.pharmacy.ufl.edu/current-students/course-policies/) carefully, at this URL:
<http://curriculum.pharmacy.ufl.edu/current-students/course-policies/>

Course-Specific Policies

The Policies in the following link apply to Skills Lab courses. Review the [Skills Lab Policies](http://curriculum.pharmacy.ufl.edu/current-students/course-policies/skills-lab-policies/) carefully at this URL: <http://curriculum.pharmacy.ufl.edu/current-students/course-policies/skills-lab-policies/>

Weekly Pre-Lab Quizzes

Weekly pre-lab quizzes will be administered online through Canvas. Quizzes will consist of knowledge related to that week's module and covered during pre-lab preparatory activities (e.g., videos and readings). Quizzes will consist of multiple choice, true/false, or case-based questions. Weekly pre-lab quizzes will be completed at the start of each lab session. Performance on quizzes is an individual effort and collaboration is not permitted.

Students who arrive after the start of the pre-lab quiz will be given a paper copy and only allowed the remaining time to complete the quiz. (E.g. a student who arrives 3 minutes after the start of the pre-lab quiz will be given a paper copy and allowed the 7 minutes remaining to complete the quiz). If you have an excused absence from lab, you will be excused from taking the quiz (EX in the gradebook). No make-up quizzes will be offered

Quiz questions/answers for pre-lab quizzes in skills labs will not be released to students. This is consistent with the patient care courses. Faculty may choose to clarify difficult questions and students are encouraged to come talk to the faculty if they have questions about what they missed on a specific prelab quiz.

Top 200 Drug Exam

We will be using the Top 300 Drug Cards available for free to students and faculty through Access Pharmacy. A list of the drugs students are expected to know each semester will be posted on Canvas.

- Students will be expected to know the following information:

- § 2PD year: 84 drugs in the fall (Cardiovascular (48), Anti-infective (20), Respiratory (16) 43 drugs in the Spring Gastrointestinal (n=11) and Anti-diabetic (n=16), Men's/Women's Health (n=16); students will be responsible for knowing the brand/generic, therapeutic class, common FDA label indication, MOA, Pregnancy category ONLY IF "Contraindicated" (meaning patients shouldn't use it during pregnancy, see Top 200 List), Box Warnings (see Top 200 List) common adverse reactions (>10%) and key patient counseling points
- Exam is **ALWAYS** cumulative: any card, any info, any drug that they've been assigned previously is fair game
- Cut scores per course:
 - 1PD: 80%
 - 2PD: 80%
 - 3PD: 80%
- Question make-up: each exam will be 75 questions total (50 Questions new material 25 Questions old material)
 - Students must obtain **80% or better on this exam in order to pass the course**. Those who do not achieve this score will retake the exam (maximum of two retakes permitted). This grade is also tracked within the Milestones course. Please see that course syllabus for minimum performance requirements and how the results are used as milestone assessments. The score earned on the first attempt will be the score which will be used for determining the course grade. Students who fail to obtain a passing score after three attempts will fail the course. Failing to pass this course may result in a student's progression through the curriculum being delayed.
 - This is a self-taught portion of the course and students are responsible for preparing themselves for the exam.
 - A list of the drugs that will appear on the examination will be released at the beginning of the course.
 - In the event of a REAL EMERGENCY (illness, sudden death in the family), a make-up examination may be provided and is at the discretion of the teaching partnership leader.
 - We will be using the Top 300 Drug Cards available for free to students and faculty through Access Pharmacy. A list of the drugs students are expected to know each semester will be posted on Canvas.
 - Students will be expected to know the following information:
 - Exam is **ALWAYS** cumulative: any card, any info, any drug that they've been assigned previously is fair game (based on 2PD Top 200 Drug list)

Skills Lab Attendance Policy

The maximum number of labs a student may make-up is two. Missing more than two labs significantly alters a students' educational experience in lab and the student will fail the course.

Assignment Re-grade Policy

When a student doesn't agree with a resident/APPE students' grade on a WRITTEN assignment, the student may request a regrade

- The student must submit approval in writing to course director within 7 days of receiving the grade
- Students acknowledge that the grade on the assignment could increase or decrease as a result of the regrade
- There will not be a regrade option for verbal assignments. Students should request feedback from their grader at the conclusion of their verbal presentation (for example, patient counseling, case presentation, etc)

Makeup Assignments

Makeup assignments may be required for excused absences from all Active Learning Sessions. Students will be required to complete the makeup assignment within one week of the missed session.

Late Assignments

- 0-24 hours late: 25% reduction of the earned score (max score possible: 75%)
- 24-48 hours late: 50% reduction of the earned score (max score possible: 50%)
- 48 hours late: Assignment will be assigned a score of 0

Respect for Diversity

The University of Florida College of Pharmacy strives to stimulate a culture that promotes diversity and inclusion within an exceptional community of students, faculty, and staff. It is our intent that students from all diverse backgrounds and perspectives be well served by this course, that students' learning needs be addressed both in and out of class, and that the diversity that students bring to this class be viewed as a resource, strength, and benefit.

We intend to present materials and activities that are respectful of diversity: gender, sexuality, disability, age, socioeconomic status, ethnicity, race, and culture. Your suggestions are encouraged and appreciated. Please let us know ways to improve the course's effectiveness for you personally or for other students or student groups.

If any of our class meetings conflict with any of your religious events, an excused absence will be provided when requested using the standard UF COP process as detailed in the [UF COP Course policies](#).

If you feel that you have experienced or witnessed any bias/treatment that falls short of these expectations, you may submit a report through the UF [COP Student Mistreatment Report](#).

Course Evaluation Process

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.ua.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from

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PHA5164L Syllabus

GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluer.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results/>.

Appendix A. Course Directory

Teaching Partnership Leader/Course Director:

Janet Schmittgen, Pharm.D.

Email: jschmittgen@cop.ufl.edu

Office: HPNP 2335

Phone: 352-273-9547

Office Hours: By appointment only.

Questions to Ask:

- Questions about grades
- Concerns about performance
- Guidance when there are performance problems (failing grades)
- General questions about content

Instructional Designer:

Skylar Johnson, M.A.

- Email: skylarjohnson@cop.ufl.edu
- Office: HPNP 4309
- Phone: 352 – 273 - 5719

Academic Coordinator:

Hanna Stallard

- Email: hstallard@ufl.edu
- Office: HPNP 4312
- Phone: 352 – 273 - 6312

[Absence Request Ticket 2PD](#)

Questions to Ask:

- Issues related to course policies (absences, make up exams, missed attendance)
- Absence requests (Only the Academic Coordinator handles absence requests)
- Questions about dates, deadlines, meeting place
- Availability of handouts and other course materials
- Assignment directions
- Questions about grade entries gradebook (missing grades, wrong grade)

- Assistance with ExamSoft® (Distant campus students may contact Education Coordinator for use of SofTest and assistance during exams. The Academic Coordinator is the contact person for issues related to grading and posting of ExamSoft grades.)

Other Teaching Partnership Faculty Members:

Jacksonville Campus Coordinator: (Office Hours TBA on Canvas)

Jessica Huston, Pharm.D.

Jessicahuston@cop.ufl.edu

904-244-9590

Orlando Campus Coordinator: (Office Hours TBA on Canvas)

Lisa Vandervoort, Pharm.D.

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Phone: 407-313-7054

Renad Abu-Sawwa, Pharm.D., BCPPS

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Kayihura Manigaba, Pharm.D., BCIDP

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Bethany Shoulders, Pharm.D.

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Carinda Feild, Pharm.D.

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Priti Patel, Pharm.D., BCPS

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Angelina Vascimini, Pharm.D.,

Email: avascimni@cop.ufl.edu

Appendix B: Course Outline

Date / Time [Recommended for Independent Study]	Mod #	Activity	Activity Title	Objectives	Contact Time (hr)	Responsible
		Lecture Video	Welcome to Skills Lab 4		0.5	
	1	Module	Sterile Compounding 1: Garbing and Aseptic Technique	1,2		Janet L Schmittgen, Lisa M Vandervoort
01/05/23	1.1.1	Video Other	Hand Hygiene and Garbing for Pharmacy Sterile Compounding		0.2	
01/05/23	1.1.2	Video Other	Cleaning & Aseptic Technique; 797 Revision		0.2	
01/05/23	1.1.3	Video Other	Aseptic Technique-Laminar Flow Hood		0.1	
01/05/23	1.1.4	Video Other	Introduction to Horizontal Laminar Flow Hood-Needles and Syringes		0.1	
01/06/23	1.2.1	Reading	Handwashing Technique		0.2	
01/06/23	1.2.2	Reading	Read: Sequence for Garbing and Cleansing		0.1	
01/06/23	1.2.3	Reading	Read: UF College of Pharmacy Garbing Rubric		0.1	
01/06/23	1.2.4	Reading	Read: Aseptic Technique Rubric		0.1	
01/06/23	1.2.5	Optional/Supplemental	Read: USP <797> Pharmaceutical Compounding-Sterile Preparations: (Required sections listed in Canvas)			
01/10/23	1	Lab	Garbing, Fluid Naming and Aseptic Technique	1,2,3	2	Janet L Schmittgen, Jessica Huston, Kayihura Manigaba, Lisa M Vandervoort, Renad Abu- Sawwa
01/10/23		Quiz (In Class)	Pre-Lab Quiz			
01/10/23		In-class Activity	In-class Activity; Handwashing Technique			
01/10/23		In-class Activity	In-class Activity; Sequence for Garbing and Cleansing Document, Rubric Garbing			
01/10/23		In-class Activity	In-class Activity; Aseptic Technique Practice Rubric			
01/10/23		In-class Activity	In-class Activity: Aseptic Technique Practi-Math Calculations Practice Problems			
01/10/23		In-class Activity	In-class Activity; IV Fluids and Nomenclature-Team-Facilitator led activity			

Date / Time [Recommended for Independent Study]	Mod #	Activity	Activity Title	Objectives	Contact Time (hr)	Responsible
	2	Module	Sterile Compounding II: Calculations	1,2,3		Janet L Schmittgen, Lisa M Vandervoort
01/12/23		Reading	Read: Preservatives in injection products		0.2	
01/12/23		Reading	Read: Sequence for Garbing and Garbing Rubric		0.1	
01/12/23		Assignment (Ungraded)	Assignment: Calculations Practice Questions		0.5	
01/12/23	2.1.1	Optional/Supplemental	Review: Calculations material from sterile compounding			
01/17/23	2	Lab	Sterile Compounding II: Calculations	1,2,3	2	Janet L Schmittgen, Jessica Huston, Kayihura Manigaba, Kelsey Cook, Lisa M Vandervoort, Renad Abu- Sawwa
01/17/23		Quiz (In Class)	Pre-Lab Quiz			
01/17/23		Performance Assessment	Assessment; Garbing and Cleansing-Rubric			
01/17/23		In-class Activity	In-class Activity: Calculations Practice and Label Reading; Calculations Practice Worksheet, Calculations Practice Label Pictures, Calculations Label Reading Questions, Calculation Aid			
01/17/23		In-class Activity	In-class Activity: Aseptic Technique Practice			
	3	Module	Beyond Use Dating/Verification of Compounded Sterile Products	1,2,3		Janet L Schmittgen, Lisa M Vandervoort
01/19/23	3.1	Reading	USP Compounding Standards and Beyond-Use Dates (BUDs)- https://www.usp.org/sites/default/files/usp/document/our-work/compounding/usp-bud-factsheet.pdf		0.25	
01/19/23	3.2	Reading	Engel J, Lazar N. Guidelines for the Establishment of Appropriate Beyond Use Dating of Sterile Compounded Admixtures. Hosp Pharm. 2016 sep;51(8): 654-655		0.25	
		Assignment (Ungraded)	Assignment: Guidelines for Establishment of Appropriate Beyond Use Dates Worksheet		0.5	

Date / Time [Recommended for Independent Study]	Mod #	Activity	Activity Title	Objectives	Contact Time (hr)	Responsible
01/20/23		Optional/Supplemental	Review materials from Mod 1-3 and sterile compounding course Review PHA5104- Quality in Sterile Compounding and Final Product Verification (pay particular attention to Final Product Verification, Labeling and Verification Process)			
01/20/23		Optional/Supplemental	ISMP Guidelines for Safe Preparation of Compounded Sterile Preparations (Links to an external site.)Links to an external site.			
01/24/23	3	Lab	Sterile Compounding III: Sterility, Stability, and Verification	1,2,3	2	Janet L Schmittgen, Jessica Huston, Kayihura Manigaba, Kelsey Cook, Lisa M Vandervoort, Renad Abu-Sawwa
01/24/23		Quiz (In Class)	Pre-lab Quiz			
01/24/23		Performance Assessment	Assessment; Calculations Assessment			
01/24/23		Assignment (Ungraded)	Assignment-BUD In-class Practice			
01/24/23		In-class Activity	Assignment-Verification In-class Practice, Verification Pictures			
01/27/23		Lab	Make-Up Lab or Remediation for Calculations, Open lab for Sterile Products Practice Will be required for students who miss ANY of Modules 1-3 or who do not achieve a passing grade for any of these module assessments			Janet L Schmittgen, Jessica Huston, Kayihura Manigaba, Kelsey Cook, Lisa M Vandervoort, Renad Abu-Sawwa
	4	Module	Sterile Compounding IV: Individual Assessment of IV Technique	1,2,3		Janet L Schmittgen, Lisa M Vandervoort
01/27/23		Optional/Supplemental	Review materials from Mod 1-3 and sterile compounding course		1	
01/31/23	4	Lab	Sterile Compounding IV: Individual Assessment of IV Technique	1,2,3	2	Janet L Schmittgen, Jessica Huston, Kayihura Manigaba, Kelsey Cook,

Date / Time [Recommended for Independent Study]	Mod #	Activity	Activity Title	Objectives	Contact Time (hr)	Responsible
						Lisa M Vandervoort, Renad Abu- Sawwa
01/31/23		Performance Assessment	Assessment: Aseptic Technique			
01/31/23		Performance Assessment	Assessment: Canvas Verification			
	5	Module	EHR Go: Order Verification	4,5		Renad Abu- Sawwa
02/02/23	5.1.1	Lecture Video	Watch: Order Verification in the EHR		0.5	Renad Abu- Sawwa
02/02/23		Video Other	Biosketch			Renad Abu- Sawwa
02/02/23		Reading	Review: Order Verification Checklist		0.1	Renad Abu- Sawwa
02/02/23		Reading	ISMP Electronic Guidelines 2019		0.1	Renad Abu- Sawwa
02/03/23		Reading	ASHP; Medication Dispensing and Delivery		0.1	Renad Abu- Sawwa
02/03/23		Reading	ASHP: Preventing Medication Errors Hospitals		0.1	Renad Abu- Sawwa
02/03/23		Reading	Drug Therapy Problem List		0.1	Renad Abu- Sawwa
02/07/23	5	Lab	EHR Go: Order Verification	4,5	2	Janet L Schmittgen, Jessica Huston, Kayihura Manigaba, Lisa M Vandervoort, Renad Abu- Sawwa
02/07/23		Quiz (In Class)	Pre-lab Quiz			
02/07/23		In-class Activity	In-class Activity: Patient Chart Review			
02/07/23		In-class Activity	Review: Order Verification with Checklist			
02/07/23		Performance Assessment	Assessment: Canvas Verification Quiz			
	6	Module	Discharge Counseling	6,9		Renad Abu- Sawwa
02/09/23	6.1	Lecture Video	Watch: Medication Reconciliation and Counseling on Discharge		0.5	Renad Abu- Sawwa
02/09/23	6.2	Video Other	Watch: Discharge Medication Counseling Video		0.1	Renad Abu- Sawwa
02/10/23		Reading	Review: Discharge Medication List Documentation Form		0.1	Renad Abu- Sawwa

Date / Time [Recommended for Independent Study]	Mod #	Activity	Activity Title	Objectives	Contact Time (hr)	Responsible
02/10/23		Reading	Review: Discharge Medication List Creation Steps Worksheet		0.2	Renad Abu- Sawwa
02/10/23		Reading	Review: Discharge Medication Counseling Rubric		0.1	Renad Abu- Sawwa
02/14/23	6	Lab	Discharge Counseling	6,9	2	Janet L Schmittgen, Jessica Huston, Kayihura Manigaba, Kelsey Cook, Lisa M Vandervoort, Renad Abu- Sawwa
02/14/23		Quiz (In Class)	Pre-lab Quiz			
02/14/23		In-class Activity	Patient Chart Review-EHRGo Link https://web21.ehrgo.com/rd/?courseA ctivityId=32506			
02/14/23		In-class Activity	In-class Activity Discharge Medication List Creation Steps Worksheet			
02/14/23		In-class Activity	In-class Activity Discharge Medication List Documentation Form			
02/14/23		Performance Assessment	Assessment-Discharge Medication Patient Counseling			
	7	Module	Patient Case Presentations	4,7		Bethany Ruth Shoulders
02/16/23	7.1.1	Lecture Video	Review: Dr. Shoulder's presentation from Skills Lab III on Succinct Patient Case Presentations (links to PHA5163L)		0.5	
02/16/23		Reading	Review: Patient Case Presentation Rubric		0.1	
02/21/23	7	Lab	Patient Case Presentations	4,7	2	Bethany Ruth Shoulders, Janet L Schmittgen, Jessica Huston, Kayihura Manigaba, Kelsey Cook, Lisa M Vandervoort, Renad Abu- Sawwa

Date / Time [Recommended for Independent Study]	Mod #	Activity	Activity Title	Objectives	Contact Time (hr)	Responsible
02/21/23		In-class Activity	EHRGo Patient Case Links Need Access Code			
02/21/23		Performance Assessment	Assessment: Individual Patient Case Presentation-Rubric			
	8	Module	Adjusting Medication for Changing Renal Function in the Hospital	4,7,8,9,10,11		Lisa M Vandervoort
02/16/23	8.2.1	Other	Review: Content from Patient Care 4-Medication Safety in CKD		0.2	Lisa M Vandervoort
02/16/23		Reading	Read: Recommendation of Antimicrobial Dosing Optimization During Continuous Renal Replacement Therapy. Frontiers in Pharmacology May 2020 Volume 11 Article 798		0.3	Lisa M Vandervoort
02/16/23		Assignment (Ungraded)	Assignment: Renal Dosing Worksheet		0.5	
02/17/23		Optional/Supplemental	Watch: Supplemental Video-Hemodialysis (2:48)			Lisa M Vandervoort
02/17/23		Optional/Supplemental	Watch: Supplemental Video-CRRT Explained (16:48)			Lisa M Vandervoort
02/27/23 MONDAY	8	Lab	Adjusting Medication for Changing Renal Function in the Hospital	4,7,8,9,10,11	2	Janet L Schmittgen, Jessica Huston, Kayihura Manigaba, Kelsey Cook, Lisa M Vandervoort, Renad Abu-Sawwa
02/27/23		Quiz (In Class)	Pre-Lab Quiz			
02/27/23		In-class Activity	In-class Activity: Renal Dosing Patient's Medication Reconciliation			
02/27/23		In-class Activity	In-class Activity: Hospital Day 3, Renal Dosing Antibiotics for HD patient			
02/27/23		Performance Assessment	Assessment: Renal Dosing Canvas Quiz			
	9	Module	Insulin and other injectables	4,7,8,9,10,11, 12		Angelina Vascimini
03/02/23	9.1	Optional/Supplemental	Review: Lectures from PC5			Angelina Vascimini
03/02/23	9.2	Lecture Video	Watch: How to place a Freestyle Libre CGM		0.1	Angelina Vascimini
03/02/23	9.3	Lecture Video	CGM tutorial		0.5	Angelina Vascimini

Date / Time [Recommended for Independent Study]	Mod #	Activity	Activity Title	Objectives	Contact Time (hr)	Responsible
03/03/23	9.4	Reading	Read: ADA Standards of Medical Care in Diabetes 2022 https://ada.silverchair-cdn.com/ada/content_public/journal/care/issue/45/supplement_1/6/standards-of-care-2022-copyright-stamped-updated-01062022.pdf? Chapter 6 Glycemic Targets Page S85-88; Chapter 7 Diabetes Technology Page S97-107.		0.2	Angelina Vascimini
03/03/23	9.5	Reading	II. Grunberger G. et al. American Association of Clinical Endocrinology Clinical Practice Guideline: The Use of Advanced Technology in the Management of Persons With Diabetes Mellitus. Endocrine Practice. 2021;27:505-537. https://pro.aace.com/disease-state-resources/diabetes/clinical-practice-guidelines-treatment-algorithms/new-2021		0.2	Angelina Vascimini
03/03/23		Assignment (Ungraded)	Pre-Lab Assignment: Maintain Insulin Diary for 5 days (food, exercise, "BG", insulin doses)		0.5	
03/07/23	9	Lab	Insulin and other injectables	4,7,8,9,10,11, 12	2	Angelina Vascimini, Janet L Schmittgen, Jessica Huston, Kayihura Manigaba, Kelsey Cook, Lisa M Vandervoort, Renad Abu-Sawwa
03/07/23		Quiz (In Class)	Pre-lab Quiz			
03/07/23		In-class Activity	Team Activity (30min): Each group should be assigned to "research" how each device is placed • Resource: (Comparison of Current Continuous Glucose Monitors (CGMs) - Diabetesnet.com) o Dexcom o Medtronic o Eversense o (Libre video created for pre-lab prep)			
03/07/23		In-class Activity	In-class Activity : Insulin Adjustment Cases based on monitoring			
03/07/23		In-class Activity	In-class Activity: Introduction to Carbohydrate Counting			

Date / Time [Recommended for Independent Study]	Mod #	Activity	Activity Title	Objectives	Contact Time (hr)	Responsible
03/07/23		Performance Assessment	Assessment: Canvas Quiz Insulin Adjustment and Carbohydrate Counting			
3/13/23 - 3/17/23			Spring Break (March 13 - 17)			
	10	Module	Complications of Chronic Diabetes	4,7,8,9,10,11, 12		Angelina Vascimini
03/10/23	10.1	Lecture Video	Watch: Complications of Diabetes Recap		0.5	Angelina Vascimini
03/10/23		Video Other	Biosketch			Angelina Vascimini
03/10/23	10.2	Reading	Read: Assigned Portions of the ADA Guidelines		0.3	Angelina Vascimini
03/10/23		Optional/Su pplemental	Review: Material from PC5			Angelina Vascimini
03/21/23	10	Lab	Complications of Chronic Diabetes	4,7,8,9,10,11, 12	2	Angelina Vascimini, Janet L. Schmittgen, Jessica Huston, Kelsey Cook, Lisa M Vandervoort
03/21/23	10	Quiz (In Class)	Pre-Lab Quiz Mod 10			
03/21/23		In-class Activity	In-class Activity: Debrief on Insulin Diary Assignment			
03/21/23		In-class Activity	In-class Activity: Case 1 Example			
03/21/23		In-class Activity	In-class Activity: HbA1C Testing			
03/21/23		Performance Assessment	Assessment; Diabetes Complications Canvas Quiz			
03/28/23			2PD Capstone Individual Assessment Skills Lab (Schedule posted per campus)			
3/29/23 @ 2pm- 5pm			2PD Dental-Pharmacy IPE			
	11	Module	DKA and Diabetes in the Hospital Setting	4,7,8,9,10,11, 12		Carinda J Feild
03/30/23	11.1	Lecture Video	Acute Complications of Diabetes		0.5	
03/30/23	11.2	Reading	DKA Protocol		0.1	
03/30/23	11.3	Reading	DKA Order Set		0.1	
03/31/23		Video Other	Biosketch: Dr. Carinda Feild			
03/31/23		Optional/Su pplemental	Review: PC 5 material for acute complications of diabetes			
03/31/23		Assignment (Ungraded)	Pre-Lab Assignment; Patient Case DKA		0.3	

Date / Time [Recommended for Independent Study]	Mod #	Activity	Activity Title	Objectives	Contact Time (hr)	Responsible
04/04/23	11	Lab	DKA and Diabetes in the Hospital Setting	4,7,8,9,10,11,12	2	Carinda J Feild, Janet L Schmittgen, Jessica Huston, Kelsey Cook, Lisa M Vandervoort
04/04/23		Quiz (In Class)	Pre-Lab Quiz			
04/04/23		In-class Activity	In-class Activity: DKA Case and Questions			
04/04/23		Performance Assessment	Assessment; DKA Canvas Quiz			
	12	Module	Women's Health	10,11,12,13,14		Jessica Huston, Kelsey Cook
04/06/23	12.1	Lecture Video	Engaging in Effective Communication Regarding Sensitive Topics		0.5	
04/06/23	12.2	Reading	Review-Clear Blue digital pregnancy test kit		0.1	
04/06/23	12.3	Reading	Review-Package Insert Sprintec		0.1	
04/07/23	12.4	Reading	Review-Plan B one-Step Fact Sheet for Healthcare Providers			
04/07/23	12.5	Reading	Review-Monistat Product Website		0.1	
04/07/23	12.6	Reading	Review-resource specific to drug use during pregnancy and lactation (see PC5 lecture) to look up the safety of the following drugs in pregnancy: Metformin; Glipizide; Regular Insulin		0.2	
04/11/23	12	Lab	Women's Health	10,11,12,13,14	2	Janet L Schmittgen, Jessica Huston, Kelsey Cook, Lisa M Vandervoort
04/11/23		Quiz (In Class)	Pre-Lab Quiz			
04/11/23		In-class Activity	In-class Activity: Women's Health Cases, Pregnancy Tests, Plan B			
04/11/23		In-class Activity	In-class Activity: Triaging common Women's Health Issues			
04/11/23		Performance Assessment	Assessment: Drug Information Questions on Pregnancy and Lactation			
04/13/23 @ 10am-12pm		Exam	Top 200 Drug Exam			Janet L Schmittgen
	13	Module	Journal Club	15		Priti Patel
04/13/23	13.1	Lecture Video	Watch: Preparing for Journal Club		0.5	Priti Patel

Date / Time [Recommended for Independent Study]	Mod #	Activity	Activity Title	Objectives	Contact Time (hr)	Responsible
04/13/23		Video Other	Watch: Journal Club Presentation		0.1	Priti Patel
04/14/23		Reading	Read: Assigned Articles		0.3	Priti Patel
04/14/23		Reading	Review: Journal Club Rubric		0.1	Priti Patel
04/18/23	13	Lab	Journal Club	18	2	Janet L Schmittgen, Jessica Huston, Kayihura Manigaba, Kelsey Cook, Lisa M Vandervoort, Priti Patel, Renad Abu- Sawwa
04/18/23		Performance Assessment	Assessment: Journal Club Presentation		2	
		Module	Top 200 Exam			
		Lecture Video	Top 200 Study Tips		0.5	
		Reading	Top 200 Drug List			
		Other	Top 200 Practice Exam			
			Total Contact Time in Course:		41.3	

Appendix C. Lab Locations & Sessions

Gainesville

- **Location:** Pharmacy Skills Lab
- **Sessions**
 - Session 1: 8:30am-10:25am
 - Session 2: 10:40am-12:35pm
 - Session 3: 1:55pm-3:50pm
 - Session 4: 4:05pm-6:00pm

Jacksonville

- **Location:** COP Lab
- **Sessions**
 - Session 1: 8:30pm-10:25pm
 - Session 10:40am-12:35pm

Orlando

- **Location:** Room 435
- **Sessions**
 - Session 1: 8:30am-10:25am
 - Session 2: 10:40am-12:35pm
 - Session 3: 2:00pm-3:55pm

Appendix D. Weekly Performance Assessment Checklist Example

GATOR Way Patient Counseling Rubric

Counseling Points

Each item is worth 5 points

G

Identifies/introduces self as the student pharmacist.

☐ YES

☐ NO

Explains the purpose of the counseling session

☐ YES

☐ NO

Identifies/confirm patient or patient's representative.

☐ YES

☐ NO

A

Makes appropriate use of the patient profile

☐ YES

☐ NO

Assesses patient understanding of the reason for therapy.

☐ YES

☐ NO

Verifies the name of the medication.

☐ YES

☐ NO

Provides dosage/regimen for medication.

☐ YES

☐ NO

Provides indication for medication.

☐ YES

☐ NO

Discusses potential (major) side effects.

☐ YES

☐ NO

Discusses potential warning, precautions, and interactions.

☐ YES

☐ NO

T

Describes missed dose instructions.

☐ YES

☐ NO

Provides number of refills.

☐ YES

☐ NO

Discusses storage recommendations.

☐ YES

☐ NO

Addresses any real or anticipated patient concerns.

☐ YES

☐ NO

Uses open-ended questions throughout counseling session.

☐ YES

☐ NO

O

Verifies patient understanding via teach back method.

☐ YES

☐ NO

Displays effective nonverbal behaviors (eye contact and body language).

☐ YES

☐ NO

Summarizes by emphasizing key points of information.

☐ YES

☐ NO

R

Provides closure and opportunity for follow-up.

☐ YES

☐ NO

Student presents facts and concepts in a logical order.

Student provided accurate information.

Novice

Competent

Proficient

Student provided understanding and empathetic responses.

☐ 1 pt

☐ 3 pts

☐ 5 pts

WAY

1/4/2023 12:47 PM

PHA5164L Syllabus

Student maintained control and direction of the
counseling session.

TOTAL SCORE

100

G = Greet

A = Acknowledge

T = Teach (using language patient will understand)

O = Observe Patient Understanding

R = Repeat/Review

WAY = Global assessment