

PHA5020 History of Pharmacy

Fall 2023

2 Credit Hours – [Satisfactory/Unsatisfactory]

This course introduces students to the history and development of the Profession of Pharmacy with special emphasis placed on the history of pharmacy in Florida. Students will explore the growth of professionalism and professional organizations, commercial and industrial growth, development of education, governance of pharmacy, establishment of literature, and the development of the pharmaceutical sciences. Using primary sources and narratives, students will foster an interest in history of pharmacy and understand the impact that visionary leaders and entrepreneurs have made on the development of the profession by analyzing the personal and professional characteristics of these pharmacy heroes.

Teaching Partnership Leaders

Janet Schmittgen, Pharm.D.

- Email: jschmittgen@cop.ufl.edu
- Office: HPNP 2335
- Phone: 352-273-9547

Office Hours: Please see the Canvas course site for posted office hours

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

Course-Level Objectives

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

1. Interpret and analyze historical pharmacy data and information from historical sources and references.
2. Provide an appropriate historical context of historical sources and references.
3. Demonstrate appropriate historical compounding techniques using traditional pharmaceutical methods.
4. Document written laboratory reports using traditional techniques for pharmaceutical compounding.
5. Develop a monograph for a Patent Medicine product and discuss how patent medicines developed and how they helped influence the development of modern medicine.
6. Describe how past pharmacists with an entrepreneurial mindset helped to shape the profession of pharmacy and what pharmacists today can learn from their success.
7. Create a professional biographical sketch and written reflection on a pharmacy hero who influenced and helped shape the Pharmacy Profession.

8. Describe attributes of a past pharmacy leader that you would like to personally develop and/or you feel apply to a need in the pharmacy profession today
9. Utilize historical resources (primary, secondary, tertiary) and tools to prepare a research project/presentation on a relevant topic in the history of pharmacy.
10. Formulate written materials, interviews, and presentations regarding the history of pharmacy.
11. Present a historical research project that includes a perspective of what pharmacists today can learn from the past.
12. Apply wisdom about pharmacy's past to guide evolving changes in the pharmacy profession.

Course Pre-requisites

Completion of all Year 1 Pharm.D. program coursework including milestones.

Course Co-requisites

None.

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.

Required Textbooks/Readings

The following texts will be available on reserve for each campus:

1. Higby, G., Cowen, D. and Sonnedecker, G. Drugstore Memories: American Pharmacists Recall Life Behind the Counter 1824-1933. American Institute of the History of Pharmacy, 2002. 1st ed. ISBN- 978093129238
2. Higby, G. and Stroud, E. American Pharmacy (1852-2002): A Collection of Historical Essays. 1st Ed. American Institute of the History of Pharmacy, 2005. 1st ed. ISBN-9780931292392

The UF HSC library staff can assist you with questions or issues related to accessing online library materials and JSTOR database. For assistance contact your College of Pharmacy librarian or visit the [HSC Library Website](http://www.library.health.ufl.edu/) at this URL: <http://www.library.health.ufl.edu/>

Suggested Textbooks/Readings

See Canvas.

Other Required Learning Resources

None.

Materials & Supplies Fees

None.

Student Evaluation & Grading

Evaluation Methods and How Grades are calculated.

[The Canvas® gradebook will be set-up using the percentages below to compute the grade.]

In order to earn an “S” (Satisfactory) for this course, you will need a calculated grade of at least 80%.

Table 1.1 Evaluation and Grading

Assessment Item	Grade Percentage
Quizzes (Reflections) (2 @ 5% each)	10%
George Thurber Diary	6%
Patent Medicine Monograph	6%
Heroes of Pharmacy Biosketch	6%
Discussion Board: Charlie McCollum – My Life as a Pharmacist Video	6%
Drug Store Memories Reflection and Discussion Board	6%
Lab Reports and Product Grade (2 @ 5% each)	10%
Presentation Project (80% or higher required for successful completion)	40%
Final Reflection & Discussion Board Post	10%
Total	100%

Description of Graded Assignments

Quiz Reflections (10%)

Quiz reflections are one-page reflections which will be completed by the student after each ALS session. Students will be given the reflection topic following the ALS discussion. Quiz reflections are to be completed by 11:59pm following the ALS.

Pre-ALS Assignments (5 @ 6%/each)

Students will complete several assignments prior to ALS sessions which will be a part of our discussions and presentations during the ALS. See the home page for assignments and due dates. More information about each specific assignment and instructions are available within each Canvas Module. Please see brief descriptions of the assignments below:

Patent Medicine Monograph (6%)

Students (group of five) will complete a Patent Medicine Monograph for a Patent Medicine manufactured in Florida (or associated with Florida). Students can work together on the monograph but must submit their team monograph individually. The monograph labels for the products are found on Canvas (products may also be found in the Pharmacy Museum (GNV) or Pharmacy Museum Showcases (JAX and ORL). Each group will present their Patent Medicine during ALS #1.

George Thurber Diary (6%)

Students will read the George Thurber Diary, from the book Drug Store Memories: American Pharmacists Recall Life Behind the Counter, 1824-1933. (Copy found on Canvas). Each student will complete the assignment worksheet and submit to Canvas ALS #1 George Thurber Diary Assignment. Please have this assignment available for ALS #1 for the class discussion. After the ALS session students will write a one-page reflection on apprenticeship in the early 19th Century.

Heroes of Pharmacy Biosketch (6%)

Students (group of five) will write a two-page biographical sketch of a chosen pharmacy hero. Each group will also make one PowerPoint slide (post to Discussion Board) with a picture of their chosen pharmacy hero and an abbreviated Biosketch to be shown in ALS #3 during your group's presentation of their pharmacy hero.

Drug Store Memories Reflection and Discussion Board (6%)

Each student will choose 5 readings from the Drugstore Memories book and write a 2-page reflection on 2 or more of these readings. Each student will post a comment on the Drugstore Memories Discussion Board about one of the readings and why this pharmacist story is unique and important. Each student will then respond to another student's post.

Lab Reports / Product Grade (10%)

Students should use the Laboratory session instructions and Laboratory worksheet to prepare for the ALS-Laboratory Session. Students should complete calculations and other required information on the worksheet and bring a printed copy of each document to the Skills Laboratory for ALS #2. After completion of the laboratory session, students will upload their completed laboratory worksheet with a picture of their final product.

Discussion Board: Charlie McCollum – My Life as a Pharmacist Video (6%)

Students will watch the video Interview of Charlie McCollum and write a one-page reflection (quiz reflection #2). After writing the reflection you will post on the discussion board about 3 things you learned and will carry with you as a pharmacist about his story.

Presentation Project (40%)

Students (groups of five) will create a historical archive final project presentation. There will be 9 group presentations. The presentations will be created using Adobe Express (formerly Adobe Spark) to create a graphic story. Each group of five students will sign up for a historically important topic. Each group will post their presentation link to the ALS #4-5 Final Project Presentation Discussion Board for the ALS #4 Virtual Poster Presentation. Students will review the Virtual Poster Presentations during the designated time and ask one question to a different group presentation. At the end of the Virtual Poster session each group will choose 3 questions to address during the Final Project Presentation Session.

Final Reflection and Discussion Board Post (10%)

Students will complete a two-page final reflection on the history of the Profession of Pharmacy after the final ALS session. Students will focus on the history of pharmacy material learned during the course and examine and reflect upon how they will use what they have learned about the Pharmacy Profession to enhance their personal and professional growth. Specific instructions for this reflection will be given in ALS #5. Students will also post on the Final Reflection Discussion Board what is one lesson that they will carry with them from learning about History of Pharmacy.

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](#) 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 General [Pharm.D. Course Policies](#) carefully, at this URL: <http://curriculum.pharmacy.ufl.edu/current-students/course-policies/>

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

Late assignments may be accepted only with permission of the course leader. Assignments need to be completed by the due date for each ALS.

Accessibility and Belonging Statement

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.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.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(s):

Janet Schmittgen, Pharm.D.

- Email: jschmittgen@cop.ufl.edu
- Office: HPNP 2335
- Phone: 352-273-9547

Office Hours: Please see the Canvas course site for posted office hours

Questions to Ask:

- 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
- Phone: 352-273-5719

Academic Coordinator Gainesville Campus:

Hanna Stallard

- Email: hstallard@ufl.edu
- Office: HPNP 4309
- Phone: 352 – 273 - 6312

[Absent Ticket 2PD](#)

[Absent Ticket 3PD](#)

Educational Coordinators

Katie Orben

- Email: korben06@ufl.edu
- Office: Jacksonville Campus
- Phone: (904) 244 - 9590

Jessica Linares

- Email: jnoriegalinares@ufl.edu
- Office: Orlando Campus
- Phone: (407) 313 - 7007

Questions to Ask:

- Issues related to course policies (absences, make up exams, missed attendance)
- Absence/tardy 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 in gradebook (missing grades, incorrect grade)
- Assistance with ExamSoft® (Distance campus students may contact the Educational Coordinator for use of Exemplify and assistance during exams. The Academic Coordinator is the contact person for issues related to grading and posting of ExamSoft grades.)

Appendix B: Course Outline

Date / Time [Recommended for Independent Study]	Mod#	Activity	Activity Title	Objectives	Contact Time (hr)	Responsible
	1	Module	Introduction to the History of Pharmacy	1-2	0	Janet L Schmittgen
11/29/23	1.1	Lecture Video	Watch: Intro to History of Pharmacy		0.75	Janet L Schmittgen
11/29/23		Reading	Read: Drugstore Memories Preface & Introduction p.vii-ix, 1- 5, George Thurber p.24-35		1	Janet L Schmittgen
11/29/23		Reading	Read: Choose 5 Drugstore Memories for Reflection		1	Janet L Schmittgen
11/29/23		Reading	Read: Guidelines for Reading Historical Texts		0.25	Janet L Schmittgen
11/29/23		Video Other	Overview of Class and Assignments		0.5	Janet L Schmittgen
	2	Module	Objects and Tools and Patent Medicines	1-2,6		Janet L Schmittgen
11/29/23	2.1	Lecture Video	Watch: Tools of the Apothecary-24:33		0.5	Janet L Schmittgen
11/29/23	2.2	Lecture Video	Watch: Patent Medicines-32:38		0.5	Janet L Schmittgen
11/29/23		Reading	Read: Tools of the Apothecary by George Griffenhagen		0.5	Janet L Schmittgen
	3	Module	The Art of Compounding, Materia Medica, "My Life as a Pharmacist"	3-4		Janet L Schmittgen
11/30/23	3.1	Lecture Video	Watch: Art of Compounding, Materia Medica-30:05		0.5	Janet L Schmittgen
11/30/23	3.2	Lecture Video	Watch: Pharmacy Laboratory-Dr. Foote (Compounding Technique)-21:49		0.5	Cary Mobley
11/30/23		Reading	ALS 2 Compounding Laboratory Guide		0.25	Janet L Schmittgen
11/30/23	3.3	Lecture Video	Watch: Life as a Pharmacist Video-51:21		1	Janet L Schmittgen
11/30/23		Reading	Read: Scoville, WL. The Art of Compounding selected readings p.1-36		0.5	Janet L Schmittgen
11/30/23 at 10am		Assignment (Graded)	Pre-ALS 1 Assignment: George Thurber Diary Questions from Drugstore Memories		0.5	
11/30/23 at 10am		Assignment (Graded)	Pre-ALS 1 Assignment: Patent Medicine Monograph (Upload to Canvas and bring to class) and Rubric		1	Janet L Schmittgen

Date / Time [Recommended for Independent Study]	Mod#	Activity	Activity Title	Objectives	Contact Time (hr)	Responsible
11/30/23 from 12pm-1:50pm		Active Learning Session	Active Learning Session 1- Patient Medicine Monograph Presentations and Discussion of George Thurber Diary Questions		2	Janet L Schmittgen
11/30/23 at 11:59pm		Assignment (Graded)	Quiz Reflection 1: George Thurber Diary		0.25	Janet L Schmittgen
	4	Module	Law and Regulation	1-2,5-6		Janet L Schmittgen
12/01/23	4.1	Lecture Video	Watch: Law and Regulation		1	Janet L Schmittgen
		Optional/Suppl emental	Read: Opioid Addiction History; Harris Isbell			Janet L Schmittgen
	5	Module	Education Requirements and Rise of Professional Organizations	1-2,5-6		Janet L Schmittgen
12/04/23	5.1	Lecture Video	Watch: History of Pharmacy Education Requirements		1	Janet L Schmittgen
12/04/23	5.2	Lecture Video	Watch: Rise of Professional Organizations-24:52		0.5	Janet L Schmittgen
12/6/23 from 12pm- 2pm		Lab	Active Learning Session 2 Lab Session in Skills Lab		2	Janet L Schmittgen
12/6/23 at 11:59pm		Assignment (Graded)	Lab Report ALS 2: Compounding Laboratory Instructions for Session and Lab report worksheet template		1	Janet L Schmittgen
	6	Module	Drug Development and Pharmacy in Florida; Group Presentation Assignment	1-2, 6		Janet L Schmittgen
12/06/23	6.1	Lecture Video	Watch: Drug Development- Historical Video		0.75	Janet L Schmittgen
12/06/23	6.2	Lecture Video	Watch: University of Florida; Centennial Celebration: A Brief History 1923-2023		0.5	Janet L Schmittgen
12/5/23 at 11:59pm		Assignment (Graded)	Pre-ALS 3 Assignment: Drugstore Memories: Reflection (Part 1) and Discussion Board (Part 2)		1	Janet L Schmittgen
12/6/23 at 11:59pm		Assignment (Graded)	Pre-ALS 3 Assignment: Drugstore Memories: Discussion Board (Part 3: Response)		0	Janet L Schmittgen
12/6/23 at 11:59pm		Assignment (Graded)	Pre-ALS 3 Assignment: Pharmacy Heroes Biosketch and Powerpoint Slide (Upload to Canvas and bring to class)		1	Janet L Schmittgen

Date / Time [Recommended for Independent Study]	Mod#	Activity	Activity Title	Objectives	Contact Time (hr)	Responsible
12/7/23 from 12pm-1:50pm		Active Learning Session	Active Learning Session 3		2	Janet L Schmittgen
12/7/23 at 11:59pm		Assignment (Graded)	Quiz Reflection 2: My Life as a Pharmacist		0.25	Janet L Schmittgen
12/7/23 at 11:59pm		Assignment (Graded)	Discussion Board: Charlie McCollum – My Life as a Pharmacist Video		0.25	Janet L Schmittgen
12/11/23 at 9am		Assignment (Graded)	Assignment: Presentation Project – Submit link to project on Canvas and on the Final Presentation Project Discussion Board		3	Janet L Schmittgen
12/11/23 from 9am-4pm		Active Learning Session--Async	Active Learning Session #4: Virtual Poster Session Abohe Express Presentations-Online viewing -- This is a virtual session and does not require class attendance		2	Janet L Schmittgen
12/12/23 from 2pm-3:50pm		Active Learning Session	Active Learning Session #5: Adobe Express Presentation Discussion		2	Janet L Schmittgen
12/12/23 at 11:59pm		Assignment (Graded)	Assignment: Reflection on the History of the Profession of Pharmacy		1	Janet L Schmittgen
			Total Contact Time in Course:		30.75	