



HLC Accreditation 2020-2021

Evidence Document

College of Health Professions

School of Nursing

Syllabi: Health Sciences: Remote and Online

Additional information:

HS 301 Clinical Pharmacology Remote Spring 2021

- Instructor: Dr. Janell Mayer, PharmD, BCGP, BCPS
- Preferred Name: Dr. Mayer (she/her)
- Department: College of Health Professions
- Email: janell.mayer@wichita.edu
- Preferred Method of Contact: **EMAIL**
- Office Hours Via Zoom: Tuesdays 11:00am to 1:00pm
Wednesday 10:00am to 11:30am by appointment
- Classroom: Days/Time: Via Zoom Tuesdays 2:00pm to 4:50pm
- Prerequisites: BIOL 223 or HS 290 or equivalent (Human Anatomy & Physiology) and CHEM 103 or CHEM 211 or equivalent (General Chemistry)

How to use this syllabus

This syllabus provides you with information specific to this course, and it also provides information about important university policies. This document should be viewed as a course overview; it is not a contract and is subject to change as the semester evolves. Please review announcements in Blackboard routinely for changes.

Academic Integrity

Students at Wichita State University are expected to uphold high academic standards. WSU will not tolerate a lack of academic integrity. Students are responsible for knowing and following the Student Code of Conduct http://webs.wichita.edu/inaudit/ch8_05.htm and the Student Academic Honesty policy http://webs.wichita.edu/inaudit/ch2_17.htm. When the faculty member determines sanctions are warranted for violations of academic integrity, regardless of severity, the faculty member must report the infraction to the Office of Student Conduct and Community Standards. If you need more information about the process or wish to appeal a decision, please visit https://www.wichita.edu/about/student_conduct/ai.php

Course Description

Surveys therapeutic terms, drug actions, dosage, toxicology and application of drugs in the clinical setting.

Measurable Student Learning Outcomes

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

- Discuss the basic principles of pharmacology and pharmacokinetics.
- Discuss the mechanism of action, side effects, monitoring parameters, & therapeutic uses of commonly prescribed medications.
- Use common medical terminology as it relates to medication usage and side effects.
- Demonstrate a working knowledge of pharmacology to optimize patient care.
- Use various drug information resources along with a knowledge of pharmacology to assess medications that may be encountered in the future.

Required Texts/Readings Textbook

Lehne's Pharmacology for Nursing Care. Burchum and Rosenthal. 10th edition
Available at WSU bookstore.

Lecture Notes

The lecture notes are posted in Blackboard. They are available for you to use them electronically or you can download and print your own copy(~128 pages). This packet contains all the course notes for the semester. You can also purchase them through the bookstore for \$12.

Other Equipment/Materials

Online students are required to have complete access to a functioning laptop or PC with internet capabilities. This laptop or computer must have Microsoft Word. If you do not have Microsoft Word on your PC or Laptop, Wichita State does provide free access to Microsoft Office 365 for students. Follow the instructions below to get Microsoft Office:

1. Log in to [MyWSU](#)
2. Click on Office 365 located on the "Home" tab
3. Follow the Office 365 wizard instructions

Before you begin your coursework, [ensure that your computer meets technical standards](#) (software, computer equipment, general skills, program management skills, communication skills, and managing your WSU e-mail) for use in online courses.

Class Protocol

Much of your quiz and case presentation scores will depend on attendance for full credit. Students are expected to be on time for class.

Contact Policy

Due to COVID-19, I will be working remotely from home so I will not be in my office to receive phone calls or check my messages. Communication through email is preferred. Feel free to email me any questions or concerns following these guidelines:

- Always use the course name in the subject line of the email
- Remember to sign your name.
- **Always** email me from your WSU email address. Email sent from personal email servers like Gmail, Yahoo, etc., have a tendency to end up in my spam folder, and I never see them. You may also email me through Blackboard via the Email My Instructor tab.
- You should NOT contact me for tech support.
 - Any technical problems involving your computer, or issues regarding file uploading or sharing, should go through the OneStop. You can contact them at 316-978-3909. You can also fill out a request for help form at their [website](#).
 - However, if you have a problem with access or uploading assignments, you *should* let me know before your assignment is due. You will also have to accompany this notification with the file in question, so I can verify that it is completed by the due date/time.

Response Time on Emails:

My goal is to answer your emails within 24 hours Monday through Friday at noon.

Grading Scale

WSU uses a +/- grading scale for final grades and to calculate grade point averages. In this class, grades are assigned according to the following chart. (Other classes might assign grades differently: Be sure to understand the different grading scales in all of your classes.)

Points/Percentage	Letter Grade	Grade Points	Interpretation
92-100	A	4.00	A range denotes excellent performance
90.00-91.99	A-	3.70	
88.00-89.99	B+	3.30	
82.00-87.99	B	3.00	B range denotes good performance
80.00-81.99	B-	2.70	
78.00-79.99	C+	2.30	
72.00-77.99	C	2.00	C range denotes satisfactory performance
70.00-71.99	C-	1.70	
68.00-69.99	D+	1.30	
62.00-67.99	D	1.00	D range denotes unsatisfactory performance
60.00-61.99	D-	0.70	
< 60	F	0.00	

The overall percent grade is calculated by dividing total points earned for the course by total points possible. Rounding does not apply. For example, a score of 91.99786 will result in an A-, not an A. To receive an A, you must achieve 92.00 or

Assignments

See Course Calendar for Due Dates

Assignments	Qty	Points	Total Points
Quizzes	10	10	100
Homework	4	10	40
Exams	4	100	400
Case Studies	2	15	30
GRAND TOTAL			570

Exams:

This course requires proctoring for all exams. We will be using Respondus LockDown Browser + Monitor for all exams.

In order to use Respondus LockDown Browser + Monitor you must:

- have a working webcam and microphone
- be able to download and install software on your computer
- be able to disable or alter various settings on your computer
- be able to troubleshoot audio or video options, often on your own
- have access to a desktop or laptop computer. Proctoring will not work on a mobile device.
- set up any software ahead of exam time.

You can have no study material with you during exams. They are closed book/closed notes.

You do have the option of taking your exam at the WSU Testing Center on campus. There is a \$10 fee associated with taking the exam at the testing center. Please let me know if you would like to use the testing center.

Group Case Studies – Explanation & Rules:

1. Everyone participates.
2. If you already have the answers to your assigned case from a previous class, don't use them. You will not learn by copying answers. You learn by going through the thought process yourself.
3. Do not divide up the questions among group members. The group should work through each question, discussing each until everyone agrees & understands.
4. **Have Fun!** We are all here to learn. These cases are meant to be interactive, thought provoking, and similar to real life cases you may encounter. They are a good review of material prior to the exam.
5. You must sign up for a date/time to meet using the online sign-up system. (Click the "Groups" button) The meeting times are on a first-come basis. I have tried to provide a variety of times in the morning, early evening, late evening, weekday, and weekend. Hopefully you will be able to find a time that suits you.
6. Zoom meeting. Your group will meet online using Zoom. You will receive an email with a Zoom invitation at least a week before your meeting time. Click on the link in the email and it will take you to the Zoom meeting.
7. Complete the cases. Each case has a series of questions. Work with your group to answer those questions. This should take **about 1 hour** if everyone participates, gets down to business, & comes prepared. Have fun! Try your best to answer each question but don't argue for too long about the answers if there are differing opinions. For some questions there may be more than one correct answer. You will receive 10 points for participating in this activity even if some of the answers are incorrect; I just need to see a good effort.
8. Instructions for the write-up: Please submit answers as a MS Word document or a PDF. Title your document with the group you were in. your group was scheduled to meet. Next, list the names of each member in our group who was there and participated in **alphabetical order by last name**. Don't do anything fancy for the write-up. This should only take 10 to 15 minutes to complete. This group write-up is **due within 24 hours** of your assigned online meetingtime
9. Submit your answers via Blackboard: Each group will turn in just one copy of the answers. Select **one person** within your group to write-up and submit one copy of the final answers for all the cases. You can divide the write-up duties between several members if you wish but I only want copy of the final answers from each group

Policy on Old Quizzes and Assignments: Students are not provided old assignments, quizzes, or exams.

Extra Credit

There are no extra credit assignments offered. This is a competency-based course. The expectation is that the presented course materials are mastered.

Missed Assignments and Exams

Homework: Homework must be turned in on time. Late homework will not be accepted and will be counted as a zero.

Group Case Studies: In order to receive full credit, you must participate in the group case studies. If you complete the group case studies but do not participate in a group you will receive 1/3 credit.

Make-up Quizzes: Only **one** make-up quiz will be allowed and only with an excused absence. Excused absences from a quiz must be approved by the instructor either verbally or in writing prior to class and must be for a valid, documented reason. Leaving a phone message or e-mail, without a response from the course instructor, does not constitute approval for the absence. Other missed quizzes will be scored as a 0. Make-up quizzes must be completed within 7 days of the scheduled quiz.

Make-up Exams: Make-up exams must be completed within 7 days of the scheduled exam and will be given only to those students with excused absences. Excused absences from an exam must be approved by the course instructor either verbally or in writing prior to the exam time and must be for a valid, documented reason. Leaving a phone message or e-mail, without a response from the course coordinator, does not constitute approval for the absence. Make-up examinations may consist of different questions, using a different question format.

Syllabus Policies and Student Resources

All students should familiarize themselves with the course-related policies and student resources that can be found at: www.wichita.edu/syllabuspolicies

These include, but may not be limited to:

- COVID-19 Conditions
- Important Academic Dates
- Academic Integrity
- Definition of a credit hour
- Video and Audio recording
- Shocker Alert System
- Intellectual Property
- CARE Team
- Counseling and Prevention Services
- Student Health Services
- Heskett Center and Campus Recreation
- Inclusive Excellence and Respect for Diversity
- First Generation Students
- Names and Pronouns
- Disability Services
- Title IX
- Concealed Carry Policy

Date	Assignments	Topic	Notes Pages	Text Chapter (10 th ed.)
Feb 2		Syllabus Orientation to Pharmacology Pharmacokinetics & Pharmacodynamics	1 – 12	1, 3-8
Feb 9	Homework due Quiz #1	Autonomic Nervous System	13-21	12-14 17,22
Feb 16	Quiz #2	Antihypertensives	22 – 30	16,41, 43-45, 47
Feb 23	Homework Due Quiz #3	Antiplatelets, Anticoagulants, & Thrombolytics Angina Pectoris Heart Failure	31 – 36 37 – 39 40 – 43	52 51 48
Mar 2	Quiz #4	Group Case Studies Set 1 Exam Review		
Mar 9	Exam 1	Diabetes Mellitus	44 – 49	57
Mar 16	Quiz #5 Homework Due	Antidepressants Insomnia and Anxiety Schizophrenia and Antipsychotics Parkinson's Disease Seizures and Epilepsy	50 – 53 54 – 55 56– 58 59 – 61 62 - 67	32 34 – 35 31 21 24
Mar 23	Quiz #6	Pain management Asthma & COPD	68 – 74 75 – 82	28, 29, 71 76,
Mar 30	Quiz #7	Group Case Studies Set 2 Exam Review		
April 6	Exam 2	OTC medications Peptic Ulcer Disease, GI Medications	84 – 88 89 – 92	70, 77, 79
April 13	Quiz #8	Estrogens and Progestins: HRT & Contraceptives Osteoporosis		61, 62 75
April 20	Quiz # 9	Principles of Antimicrobial Therapy Cell Wall Synthesis Inhibitors Protein Synthesis Inhibitors Fluoroquinolones	103 – 108 109 - 114 115 - 118 118	83 84, 85 86, 87 91
April 27	Homework due Quiz #10	Folic Acid Inhibitors Miscellaneous antibiotics Tuberculosis Antifungal Agents Antiviral Agents	119 –120 120 121-- 122 123 – 125 126 –127	88 89, 91 90 92 93
May 4	Exam 3	Exam 3		
May 11	Exam 4	Exam 4 (Comprehensive Final)		

HS 301 Clinical Pharmacology Online Spring 2021

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Class Protocol

Though this is an online class, participation is still crucial. "Participation" involves reading the assignments thoroughly, watching all videos (including updated videos I add throughout the semester), and completing online assignments. To be successful in this class, you should be checking your student email daily and logging in to our course at least 3 times a week.

Contact Policy

Due to COVID-19, I will be working remotely from home so I will not be in my office to receive phone calls or check my messages. Communication through email is preferred. Feel free to email me any questions or concerns following these guidelines:

- Always use the course name (online) in the subject line of the email
- Remember to sign your name.
- **Always** email me from your WSU email address. Email sent from personal email servers like Gmail, Yahoo, etc., have a tendency to end up in my spam folder, and I never see them. You may also email me through Blackboard via the Email My Instructor tab.
- You should NOT contact me for tech support.
 - Any technical problems involving your computer, or issues regarding file uploading or sharing, should go through the OneStop. You can contact them at 316-978-3909. You can also fill out a request for help form at their [website](#).
 - However, if you have a problem with access or uploading assignments, you *should* let me know before your assignment is due. You will also have to accompany this notification with the file in question, so I can verify that it is completed by the due date/time.

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72.00-77.99	C	2.00	C range denotes satisfactory performance
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Assignments

See Course Calendar for Due Dates

Assignments	Points
Weekly activities	30
Quizzes (3 x 10)	30
Exams (4 x 100)	400
Case Studies (2 x 10)	20
GRAND TOTAL	480

Weekly Activities:

Weekly activities must be completed on time to receive full credit. Late assignments will receive half credit only. Activities that are over **48 hours late** will be scored as a 0. Specific instructions for these activities will be provided.

Quizzes:

Students are expected to complete each quiz within the scheduled time frame. **Quizzes taken after the quiz window will be counted as a zero.** The quizzes are computerized and are taken through BlackBoard. Quizzes are not proctored but are timed

Exams:

Students are expected to complete each exam within the scheduled time frame. **Exams taken after the exam window will be counted as a zero.** The exams are computerized and are taken through BlackBoard. The exam window will be from Tuesday at 8:00am to Wednesday at 8pm

This course requires proctoring for all exams. We will be using Respondus LockDown Brower + Monitor for all exams.

In order to use Respondus LockDown Brower + Monitor you must:

- have a working webcam and microphone
- be able to download and install software on your computer
- be able to disable or alter various settings on your computer
- be able to troubleshoot audio or video options, often on your own
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- set up any software ahead of exam time.

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You do have the option of taking your exam at the WSU Testing Center on campus. There is a \$10 fee associated with taking the exam at the testing center.

Group Case Studies – Explanation & Rules:

1. Everyone participates.
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5. You must sign up for a date/time to meet using the online sign-up system. (Click the red "Groups" button) The meeting times are on a first-come basis. I have tried to provide a variety of times in the morning, early evening, late evening, weekday, and weekend. Hopefully you will be able to find a time that suits you. If you do not sign-up by the designated deadline you may not be allowed to participate.
6. Zoom meeting. Your group will meet online using Zoom. You will receive an email with a Zoom invitation at least a week before your meeting time. Click on the link in the email and it will take you to the Zoom meeting.
7. Complete the cases. Each case has a series of questions. Work with your group to answer those questions. This should take **about 1 hour** if everyone participates, gets down to business, & comes prepared. Have fun! Try your best to answer each question but don't argue for too long about the answers if there are differing opinions. For some questions there may be more than one correct answer. You will receive 10 points for participating in this activity even if some of the answers are incorrect; I just need to see a good effort.
8. Instructions for the write-up: Please submit answers as a MS Word document or a PDF. Title your document with the group you were in. your group was scheduled to meet. Next, list the names of each member in our group who was there and participated in **alphabetical order by last name**. Don't do anything fancy for the write-up. This should only take 10 to 15 minutes to complete. This group write-up is **due within 24 hours** of your assigned online meeting time

9. Submit your answers via Blackboard: Each group will turn in just one copy of the answers. Select **one person** within your group to write-up and submit one copy of the final answers for all the cases. You can divide the write-up duties between several members if you wish but I only want copy of the final answers from each group

Policy on Old Quizzes and Assignments: Students are not provided old assignments, quizzes, or exams.

Extra Credit

There are no extra credit assignments offered. This is a competency-based course. The expectation is that the presented course materials are mastered.

Using Blackboard (Bb) for On-line Course Instruction

Start Here Button

- Meet Your Professor: Information about Dr. Mayer
- Student Support Manual:

Announcements Button

- The course announcements page is a crucial area of communication regarding the course. Visit it first every time you log into the course. This area will only show announcements for the last 7 days unless you click one of the other tabs.
- You should be accessing the course at least every other day.

Syllabus Button

- The course syllabus is located here

Lessons Button

- Links to the video lectures can be found here. Usually there are 4 to 8 videos that make up each week's lessons.
- All instructions and links to related activities for each week's lessons are found here.

Study Tools Button

- **Practice Questions:** These practice questions cover material related to the upcoming exam. They are not worth real points & can be repeated over and over. They are meant to be flash card, memorization-type questions that will give you an idea how you are doing.
- **How to Succeed in this Course:** These are tips for studying material.
- **Tips for Making Flash Cards**
- **Drug Pronunciation:** Link to Howjsay. This link will help you learn how to pronounce drug names.

My Grades Button

- This page shows your grade for your activities, case studies, exams, and overall points.

Email Button

- This allows you to send e-mail directly to me through Bb. You can also send e-mails to the entire class or selected class members.

Groups Button

- This is where you will sign up for your group case studies

Quizzes Button:

- This page is where you will find the links to the quizzes. The quizzes will be open during the quiz window.

Exams Button:

- This page is where you will find the links to the exams. The exams will be open during the exam window.

Syllabus Policies and Student Resources available at www.wichita.edu/syllabuspolicies

Information on:

- Important Academic Dates
- Academic Integrity
- Definition of a credit hour
- Video and Audio recording
- Shocker Alert System
- Intellectual Property
- CARE Team
- Counseling and Prevention Services
- Student Health Services
- Heskett Center and Campus Recreation
- Inclusive Excellence
- First Generation Students
- Names and Pronouns
- Disability Services
- Title IX
- Concealed Carry Policy

Tentative Schedule

February

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1 Orientation Video	2 Orientation Video	3 Orientation Activity Due	4 Drug Info Activity	5 Drug Info Activity Due	6 Lesson 1
7 Lesson 1	8 Lesson 1	9 Activity 1 Due	10 Lesson 2	11 Lesson 2	12 Lesson 2	13 Lesson 2
14 Lesson 2	15 Lesson 2	16 Activity 2 Due	17 Lesson 3	18 Lesson 3 Quiz #1	19 Lesson 3 Quiz #1	20 Lesson 3
21 Lesson 3	22 Lesson 3	23 Activity 3 Due	24 Lesson 4	25 Lesson 4	26 Lesson 4	27 Lesson 4
28 Lesson 4						

March

	1 Lesson 4	2 Activity 4 Due	3 Group Patient Cases	4 Group Patient Cases	5 Group Patient Cases	6 Group Patient Cases
7 Group Patient Cases	8 Study	9 Exam #1	10 Exam #1	11 Lesson 5	12 Lesson 5	13 Lesson 5
14 Lesson 5	15 Lesson 5	16 Activity 5 Due	17 Lesson 6	18 Lesson 6	19 Lesson 6	20 Lesson 6
21 Lesson 6	22 Lesson 6	23 Activity 6 Due	24 Lesson 7	25 Lesson 7 Quiz #2	26 Lesson 7 Quiz #2	27 Lesson 7
28 Lesson 7	29 Lesson 7	30 Activity 7 Due	31 Group Patient Cases			

April

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 Group Patient Cases	2 Group Patient Cases	3 Group Patient Cases
4 Group Patient Cases	5 Study	6 Exam #2	7 Exam #2	8 Lesson 8	9 Lesson 8	10 Lesson 8
11 Lesson 8	12 Lesson 8	13 Activity 8 Due	14 Lesson 9	15 Lesson 9	16 Lesson 9	17 Lesson 9
18 Lesson 9	19 Lesson 9	20 Activity 9 Due	21 Lesson 10	22 Lesson 10 Quiz #3	23 Lesson 10 Quiz #3	24 Lesson 10
25 Lesson 10	26 Lesson 10	27 Activity 10 Due	28 Lesson 11	29 Lesson 11	30 Lesson 11	
MAY						
						1 Lesson 11
2 Lesson 11	3 Lesson 11	4 Activity 11 Due Exam #3	5 Exam #3	6	7	8
9	10	11 Exam #4	12 Exam #4	13	14	15

	Lesson	Topics	Notes Pages	Text Chapter (10 th Ed)	
		COURSE ORIENTATION VIDEO	Syllabus		
E X A M 1	1	Introduction to Pharmacology Principles of PK & PD	2 – 12	1, 3–8	F I N A L E X A M
	2	Autonomic Nervous System	13 – 21	12 -- 14, 17, 22	
	3	Antihypertensives	22 – 25 26 – 30	18, 41, 43-45, 47	
	4	Antiplatelets, Anticoagulants, & Thrombolytics Angina Heart Failure	31 – 36 37 – 39 40 – 43	52 51 48	
E X A M 2	5	Diabetes	44 – 49	57	
	6	Antidepressants Insomnia & Anxiety Schizophrenia & Antipsychotics Parkinson's Disease Seizures – Epilepsy	50 – 53 54 – 55 56 – 58 59 – 61 62 – 67	32 34 – 35 31 21 24	
	7	Pain Management Respiratory drugs: Asthma and COPD	68 – 74 75 – 82	28, 29, 71,72, 76	
E X A M 3	8	OTC Medications GI Antiemetics	84 – 88 89 – 92	70, 77, 78 79, 80	
	9	Estrogen and Progestins - HRT/Contraceptives Osteoporosis	93 – 99 99 – 102	61-62 75	
	10	Principles of Antimicrobials – ABX Intro Cell Wall Synthesis Inhibitors Protein Synthesis Inhibitors Fluoroquinolones Folic Acid Inhibitors Misc. Antibiotics	103– 108 109– 114 115– 118 118 119- 120 120	83 84-85 86-87 91 88 89-91	
	11	TB Antifungals Antivirals	121–122 123–125 126--127	90 92 93	