



School of Pharmacy Required Course Syllabus – P2 Spring 2021
PHAR 6473 / ISBP Track / Integrated Systems-Based Pharmacotherapy IIB2
March 09, 2022 – May 5, 2022

Course Coordinator & Faculty

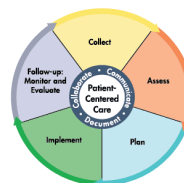
<i>Name</i>	<i>Email</i>	<i>Office</i>
Ian Mendez, PhD (coordinator)	iamendez2@utep.edu	715
Emily Christenberry, PharmD, BCPS, BCGP	ejchristenberry@utep.edu	514
Suman Sirimulla, PhD	ssirimulla@utep.edu	716
Boa Choi, PharmD	bchoi@utep.edu	N/A
Denise Pinal, PharmD, BCPPS	denisepi@utep.edu	718
Andre Montes, PharmD	agmontes@utep.edu	503
Alaa Abdelhakiem, PharmD	akabdelhakiem@utep.edu	515
Jamie Stone, PharmD	jstone@utep.edu	517

Office Hours

Dr. Mendez’s office hours are Tuesdays from 3:00-4:00 PM MDT via Blackboard Collaborate course room. Dr. Mendez will accommodate all students as time permits. Additional appointments outside of this time may be requested via email or MS Teams. Messages should be sent from your UTEP accounts, with emails including the course number & name in the subject line. Appointments with course instructors are available via email request. All appointments should be made at least 2 business days in advance.

Course Description

The Integrated Systems-Based Pharmacotherapy (ISBP) course series begins in the P2 year (primary care focus) and continues through the P3 year (advanced pharmacotherapy/acute care/specialty focus), providing the essentials for integrating foundational knowledge with practice and care. Faculty from Pharmaceutical Sciences and Clinical Sciences will work together to design a comprehensive, integrated approach to



Source: <https://doi.org/10.21019/9781582122564.ch6>

pharmacotherapy, which includes a practical application lab and an integrated lab. The topics in this course include: Infectious Diseases, Psychiatry, and Neurology.

Pharmacists' Patient Care Process: This course will help students utilize the concepts of pathophysiology, medicinal chemistry, pharmacology, and therapeutics in the evaluation and treatment of various disease states.

Course Objectives mapped to National Pharmacy Education Outcomes

At the conclusion of this course, students shall be expected to:

<i>Course Objectives</i>	<i>CAPE Outcomes</i>	<i>PCOA</i>	<i>NAPLEX</i>	<i>Level of Assessment</i>	<i>Outcome Measures</i>
Objective 1: Apply the basic anatomy and physiology concepts to understand the cellular and molecular organization of the organ system.	1.1	1.1.1		R	Exams, Quizzes, Class Assignments
Objective 2: Describe the pathophysiology responsible for all disease states covered.	1.1	4.2.1	1.5	R	
Objective 3: Classify the structure-activity relationships (SARs) to drug receptor/target interactions.	1.1	2.1.1, 2.1.2, 2.1.4, 2.1.5	2.1	R	
Objective 4: Identify SARs with regard to characteristic pharmacophores and drug-receptor interactions for specific drugs and drug classes.	1.1	2.1.3, 2.1.4	2.1	R	
Objective 5: Illustrate the mechanism of pharmacological action (including toxicology, adverse effects, and drug-drug interactions) of specific drugs and drug classes in affecting/treating a targeted disease state.	1.1	2.2.1, 2.2.2, 2.2.3, 2.2.4	2.1, 2.3, 2.4, 3.6, 3.7, 3.8	R	
Objective 6: Apply the general principles of drug pharmacokinetics, pharmacodynamics, and pharmacogenomic into the drug therapy plan.	1.1	2.5.3, 2.6.2 4.3.1, 4.3.2 4.4.1	3.10	R	
Objective 7: Integrate pathophysiology concepts and basic principles of pharmaceutical sciences into the therapeutic decision-making process.	1.1	4.1.5, 4.1.6 4.6.4	3.2, 3.10, 4.1, 4.4, 5.1	R	
Objective 8: Describe the etiology, incidence, and prognosis associated with disease states covered, including toxicological conditions.	1.1	3.1.4	1.5, 1.6	R	
Objective 9: Recognize the major signs, symptoms, and clinical findings associated with each disease state, including toxicological conditions.	1.1	4.6.3	1.5, 1.6, 3.1, 3.2, 4.1	R	

Objective 10: Identify usual medication doses, dosage forms, adverse drug reactions, and monitoring parameters of drug classes.	1.1	2.2.3, 4.7.1, 4.7.2, 4.7.8, 4.7.9	2.2, 3.3, 3.4, 3.5, 3.7, 3.9	R	
Objective 11: Formulate a comprehensive drug therapy plan that incorporates non-pharmacologic and pharmacologic approaches including first-line therapy, alternative therapies, monitoring parameters and diagnostic interpretations, desired therapeutic goals/outcomes, and considerations for special populations.	2.1 3.1	4.1.4 4.5.1, 4.5.2 4.7.1, 4.7.2, 4.7.3, 4.7.4, 4.7.5, 4.7.6, 4.7.7, 4.7.8	1.1, 1.4, 3.1, 3.2, 3.3, 3.4, 3.5, 3.9, 3.11, 3.12	R	

Questions Related to the Course and Grading/Exams

In general, questions related to the overall course should be directed to the coordinator.

Content/topic-specific questions should be directed to the content instructor within **five (5) business days** of the material being presented.

Any questions concerning **assignments/exam grades** should be discussed with the **course coordinator within five (5) business days** after the grades have been posted.

Additional/Detailed Course Meetings & Location

Scheduled Class Times: **M,T,W,Th from 9:00-9:50 AM and 10:00-10:50 AM MDT**

Class Format: Hybrid. In-person lecture will be in Campbell Room 212. Lecture live streams and/or recordings are provided via the Zoom tool in Blackboard collaborate. Both in-person and remote options are available to all students throughout the duration of course.

Weekly exams will be completed remotely using ExamSoft Exam ID and Exam Monitor, and will be held **Wednesdays from 7:30-9:00 AM MDT**, unless otherwise specified. The Final Exam will be in-person only.

In a major disruption (e.g., H1N1 epidemic, subzero weather), be prepared to maintain course progress online-only (e.g., Internet, our Blackboard course shell, etc.) and check your UTEP email regularly.

Online Platform/Blackboard:

Accessing Course Content on Blackboard: All lecture streams, recordings, handouts, and course material will be located in Blackboard. Log into My UTEP.edu and click on the Blackboard link to access the online course for PHAR 6473. The course is individualized, and students may access course material as it is made available by course instructors. Except in cases of a UTEP

network being “down” or “offline”, you are ultimately responsible to ensure that your computer is connected to the internet and that any issues are addressed prior to class and/or assessments.

Online Assessment Requirements:

This course requires the use of ExamSoft® Exam Monitor. Students are responsible for creating their online login within the first week of class. It is the student’s responsibility to maintain access to a reliable internet connection (with the rare exception of when UTEP’s systems are down).

If students cannot access your online account, please contact Adrian Enriquez (aealonso@utep.edu), to resolve this issue within five (5) business days of the first day of class. Students are responsible for ensuring they have access to the online assessment system. Mr. Enriquez is NOT available for questions or laptop failures/requests after business hours or on weekends.

Electronic exams need to be downloaded at a minimum of 2 hours prior to the examination to avoid a 10% grade penalty deduction. Repeated instances (> 1 time) of not downloading electronic exams will result in a referral to the professionalism committee on the SOP Progression Committee and additional 10% grade penalty deduction from the student’s earned exam score.

Methods of Instruction/Learning

The learning outcomes in this course will be achieved via:

1. Outside Preparation (e.g., readings, micro-lecture videos, assignments)
2. Hybrid Lectures (e.g., case applications, quizzes)
3. Exams, quizzes

Required Course Technology/Tools/Needs

Required Textbooks:

- Bauer LA. *Applied Clinical Pharmacokinetics*. 3rd ed. ISBN 978-0071794589. Available in AccessPharmacy.
- Brunton LL. *Goodman & Gilman’s The Pharmacologic Basis of Therapeutics*. 13th ed. ISBN 978-0071624428. Available in AccessPharmacy.
- DiPiro JT. *Pharmacotherapy: A Pathophysiologic Approach*. 11th ed. ISBN 978-125958741. Available in AccessPharmacy.
- Hammer GD. *Pathophysiology of Disease: An Introduction to Clinical Medicine*. 7th ed. ISBN 978-0071806008. Available in AccessPharmacy.

- Hoffman RS. *Goldfrank's Toxicologic Emergencies*. 10th ed. ISBN 978-0071801843. Available in AccessPharmacy.
- Johnson JA. *Pharmacogenomics: Applications to Patient Care*. 3rd ed. ISBN 978-1939862099.
- Krinsky DL. *Handbook of Nonprescription Drugs: An Interactive Approach to Self-Care*. 19th ed. ISBN 978-1582122656. Available in PharmacyLibrary.
- Lemke TL. *Foye's Principles of Medicinal Chemistry*. 7th ed. ISBN 9781609133450.

Recommended Textbooks:

- Beale JM. *Wilson and Gisvold's Textbook of Organic Medicinal and Pharmaceutical Chemistry*. 12th ed. ISBN 978-0781779296.
- Bertino JS. *Pharmacogenomics: An Introduction and Clinical Perspective*. 1st ed. 978-0071741699. Available in AccessPharmacy.
- Golan DE. *Principles of Pharmacology: The Pathophysiologic Basis of Therapeutics*. 4th ed. ISBN 978-1451191004.
- Jameson JL. *Harrison's Principles of Internal Medicine*. 20th ed. ISBN 978-1-259-64403-0. Available in AccessPharmacy.
- Katzung BG. *Basic and Clinical Pharmacology*. 15th ed. ISBN 978-1259641152. Available in AccessPharmacy.
- Morton DA. *The Big Picture: Gross Anatomy*. 1st ed. ISBN 978-0071476720. Available in AccessPharmacy.
- Murphy JE. *Clinical Pharmacokinetics*. 6th ed. ISBN 978-1585285365. Zdanowicz M. *Concepts in Pharmacogenomics*. 2nd ed. ISBN 978-1585285167.

Laptop:

- Students are expected to bring/use laptop computers for class each day for participation in exercises or assessments. It is the student's responsibility to ensure their laptop is in working condition and meets the University and School of Pharmacy IT requirements (See SOP Student Handbook).
- **Audio (speaker & microphone) and video (camera) MUST be checked to be functional for classes and online exams.**
- Students should be ready at any time to share their screen with classmates/faculty for course learning.
- Students should expect to have their cameras and microphones turned on for learning activities, as directed by course faculty.

Calculator: Students are expected to bring a non-programmable calculator to class and to all assessment activities. Some exams (e.g., ExamSoft®) may use the software calculator.

Software/Technology (must be tested in first week of course to ensure functionality)

- ExamSoft® Exam Monitor
- Blackboard® Collaborate: Chrome Browser

- Microsoft® Teams
 - Blackboard® Respondus Lockdown
 - Zoom®
 - iClicker REEF mobile app or website – add PHAR6473 ISBP IIB2 to your course list
 - Audio (speaker & microphone) and video (camera)
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Attendance

The attendance policy for the School of Pharmacy is outlined in the Student Handbook. It is expected that students will attend classes (virtually or in-person) on time and be prepared for the day's lesson(s). Lectures will be delivered in-person during class hours in Campbell 212. **All lectures will also be streamed and/or recorded and all exams, except the final exam, will be remote. Class assignments will have both remote and in-person options, but may be synchronous with class delivery and require attendance (in-person or virtual). Additionally, in-person attendance may be taken at any time, as bonus points will be assigned based on in-person attendance across the course.** Students are expected to complete exams and assignments as scheduled and only excused absences will be allowed a make-up exams and assignments. Missing class for work is NOT a valid reason for absence. Refer to the Student Handbook for examples of excused absences.

Classroom & Online Etiquette

Students are expected to be professionals and will be treated as such unless circumstances deem otherwise. Any behavior that impairs student ability to learn will not be tolerated (e.g., side conversation, cell phone use, electronic device use for activities not related to coursework). Laptops may be used during class for streaming lecture, watching recordings, and taking notes. Using laptops for other activities than taking notes causes a disruption to the class around you.

IF ONLINE: Your instructors and classmates want to generate a safe online learning environment. Please use appropriate online classroom behavior by reading the UTEP Netiquette Guide for Online Courses available at <https://www.utep.edu/extendeduniversity/cid/Files/docs/faculty-resources/student-orientation/NetiquetteGuideforOnlineCourses>.

Expectations of Students During Course

It is the responsibility of the **student** to monitor their progress during the course. Students should seek advice and assistance from the course facilitator as soon as they encounter any difficulty in the course. Course progress includes, but is not limited to, understanding of course materials, assignment descriptions & deadlines, and important dates within the course. All course

participants, including students, faculty, and staff, are expected to conduct themselves in a professional manner when engaged in course activities (e.g., lectures, office hours).

Students are expected to log-in to Blackboard a minimum of three (3) times a week to check for updates and course progress. Students should seek advice and assistance from the course coordinator as soon as he/she encounters any difficulty in the course.

COVID-19 Precautions

This course meets in-person during the semester, but will offer a remote option for attending lectures. Please stay home if you have been diagnosed with COVID-19 or are experiencing COVID-19 symptoms. If you are feeling unwell, please let the course coordinator and Ms. Carmen Ramos, Director of Student Affairs at crtorres2@utep.edu know as soon as possible, so that we can work on appropriate accommodations. If you have tested positive for COVID-19, you are encouraged to report your results to covidaction@utep.edu, so that the UTEP Dean of Students Office can provide you with support and help with communication with your professors. The Student Health Center is equipped to provide COVID-19 testing. Please see <https://www.utep.edu/resuming-campus-operations/?home> for up-to-date UTEP policies and follow all CURRENT public health precautions/measures.

The Center for Disease Control and Prevention recommends that people in areas of substantial or high COVID-19 transmission wear face masks when indoors in groups of people. The best way that Miners can take care of Miners is to get the vaccine. If you still need the vaccine, it is widely available in the El Paso area, and will be available at no charge on campus during the first week of classes. For more information about the current rates, testing, and vaccinations, please visit epstrong.org

Evaluation and Grading Policy

Course point distribution will be as follows:

Type of Assessment	Points	% of Course Grade
In-Class Assignments, Quizzes, and/or Activities	37	11
Exam 1	56	17
Exam 2	32	10
Exam 3	48	15
Exam 4	50	15
Exam 5	28	9
Final Exam	74	23
<i>TOTAL</i>	325	100

Assignment of grades:

A = 90 – 100%
B = 80 – 89%
C = 70 – 79%
D = 60-69%
F = < 60%

It is the responsibility of the **student** to monitor his/her progress during the course and see that he/she is maintaining the required competency level. Students should seek advice and assistance from the course facilitator as soon as he/she encounters any difficulty in the course.

Class Assignments, Quizzes, and/or Activities:

Faculty may assign in-class or pre-/post-class assignments (i.e., assignment may require completion during synchronous class time or outside of class time). These may utilize virtual learning systems including (but not limited to) Yuja or Blackboard Collaborate. Refer to the Blackboard course shell for detailed instructions. Faculty may assess your knowledge and/or completion of these activities through embedded quizzes, in-class iClicker or Blackboard quizzes, or other learning activities.

Exams:

There will be a total of six exams, including the final exam. The exams include but are not limited to true/false, matching, multiple choice, short answer, and/or multiple answer (i.e., select all that apply) questions. All exams will be administered remotely via ExamSoft® Exam ID and Exam Monitor, unless noted otherwise.

Bonus Points:

Bonus points will be based on in-person attendance. Instructors may take attendance at any time during the course, for including in bonus point assignment. The total number of bonus points and bonus point assignment will be determined by the course coordinator upon completion of the course, but prior to final grade submission.

EXAM-RELATED Technology and Guidance:

Please refer to the UTEP School of Pharmacy Student Handbook for guidance for exams (online/remote as well as on campus) <https://www.utep.edu/pharmacy/current-students/current-students.html>

Online Assessment Requirements:

This course requires the use of ExamSoft Exam ID and Exam Monitor. Students are responsible for creating their online login within the first week of class. It is the student's responsibility to maintain access to a reliable internet connection (with the rare exception of when UTEP's systems are down). **Students are expected to review all remote exam guidance carefully. Not understanding the guidance and requirements is not an excuse for failing to follow them.**

If students cannot access their online account, please contact **Adrian Enriquez** (aealonso@utep.edu), to resolve this issue **within five (5) business days of the first day of class**. Students are responsible for ensuring they have access to the online assessment system. Mr. Enriquez is **NOT available** for questions or laptop failures/requests **after business hours or on weekends**.

Missed Quizzes / Exams / Assignments – Excused/Unexcused Absences

Only students who miss an exam, quiz, or an assignment due date as a result of an *excused absence* will be allowed to make-up the missed assignment or exam. Students should consult the UTEP School of Pharmacy **Student Handbook** for definitions and examples of excused absences.

- The student **MUST** notify the course coordinator on the day of the exam for the student to be excused from that exam for an **emergency**.
- In the case of **religious holidays**, the student **MUST** notify the course coordinator **ten (10) business days prior to the exam date**. Students should not assume that they can miss an exam for vacation or other personal conflicts.
- Any excused absence from an exam for **health reasons** must be documented with a note from an appropriate health professional.
- Any unexcused absence from an exam will result in a grade of **ZERO** for that exam.

The course coordinator will determine the time and date for a make-up exam, which will occur before the end of the course. If the student is unable to attend either the original exam or the make-up exam, the course coordinator is not required to provide additional opportunities for the student make-up exam. The format of the make-up examination is at the discretion of the course coordinator, and may include any question type including, but not limited to, open-ended questions, an essay examination, or oral examinations.

Remediation Policy

Remediation may occur if a student fails the course. Students must participate fully in the course to be eligible for remediation. Please refer to the **Student Handbook** for end-of-course remediation policies and timelines (*see Student Handbook: Table of Contents for End of Course Remediation*).

Course Evaluation

During this course, you will be provided with an opportunity to evaluate this course and your instructors. The Associate Dean for Assessment, Accreditation, and Strategic Planning will send an email reminder toward the end of this course for you to complete the course evaluation. UTEP uses an online course evaluation system. Course Evaluations can be taken at **my.utep.edu** by clicking on the CLASSES TAB on the left. The Course Evaluation module will appear and your classes will be listed. Click on the Course Name, or CRN, to complete the evaluation for the course. Your participation is an integral part of this course and the accreditation process, and your feedback is vital to improving education at the School of Pharmacy.

General Statement about Course Policy

The syllabus is subject to change to meet course needs, especially if there are unexpected disruptions or changes in class size, resources, etc. The most updated syllabus can be found on the course Blackboard shell. It is the student's responsibility to review the syllabus periodically for updates.

UTEP and SOP Policy for Academic Integrity

Any student who commits an act of academic dishonesty is subject to discipline (which could include failure of course or dismissal from School of Pharmacy). Please refer to the Student Handbook for SOP guidance on academic integrity (*see Student Handbook - Table of Contents for Curriculum and Classroom Policies: Academic Integrity*).

Academic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, and any act designed to give unfair advantage to a student or the attempt to commit such acts.

Proven violations of the detailed regulations, as printed in the Handbook of Operating Procedures (HOP), and available in the Office of the Dean of Students and on the homepage of the Dean of Students at www.utep.edu/dos, may result in sanctions ranging from disciplinary probation, to a failing grade on the work in question, to a failing grade in the course, to suspension or dismissal, among others. (For more information, see: <https://www.utep.edu/student-affairs/osccr/student-conduct/academic-integrity.html>)

Professionalism and Professional Conduct

While enrolled at the University, a student neither loses the rights nor escapes the responsibilities of citizenship. Thus, UTEP and the SOP value professionalism and expect all students to not only acquire but also maintain the highest standards of professional attitudes and behaviors in

their interactions with their fellow classmates, staff, faculty, colleagues and their patients, as described in **the UTEP School of Pharmacy Student Handbook** and as per UTEP's student conduct policies (see <https://www.utep.edu/student-affairs/osccr/student-conduct/index.html/> for further information). Any student who engages in conduct that is prohibited by the Board of Regents' Rules and Regulations, University or SOP rules or by federal, state, or local law is subject to discipline whether such conduct takes place on or off campus or whether civil or criminal penalties are also imposed for such conduct. Please refer to the Student Handbook for specific expectations regarding professional conduct in the SOP (*see Student Handbook: Table of Contents for Academic Progression: Good Standing: Professional*).

Cell Phones

Students should carry cell phones but keep the phone on the vibrate mode in the event students need to be notified by the emergency alert system. Disruptive cell phone use for the purpose of texting, email, or social media is not permitted. The use of a cell phone or the ringing of the phone in class is considered unprofessional behavior. No cellphones, calculators, laptops, or other items may be used during an assessment (e.g., exam or a quiz) unless specifically as part of that assessment and approved by the instructor. Unapproved use will result in a ZERO grade.

Technical Assistance

Checking computer requirements and ensuring that all software up to date is essential for students to access course content. **Supported browsers include** –

- 1) **For a PC:** Mozilla Firefox and Google Chrome (NOT Internet Explorer)
- 2) **For a Mac:** Safari, Firefox, and Chrome

Check for updates on supported browsers:

https://help.blackboard.com/Collaborate/Ultra/Participant/Get_Started/Browser_Support#supported-browsers_OTP-0

To enhance browser performance, students should clear the browser cache and allow pop-ups. In addition to testing the web browser, check to ensure that the computer has an updated version of **Java** (go to <http://java.com>, click on “Do I have Java”, click on “Verify Java Version,” update Java if needed). Additional browser plug-ins may also be needed to view some content that your instructor may share on the learning management system. Common plug-ins include: **Adobe Reader, Flash Player, Windows Media Player, QuickTime**. When creating documents, slide presentations, spreadsheets, etc., be sure to use Microsoft Office or a compatible program (see 10 Free MS Word Alternatives). The UTEP Technology Support Services (3rd floor, UTEP Library) can assist students with any applications, compatibility packs, patches, and/or updates.

Students working off campus may need to set up a **Virtual Private Network (VPN)** on their computer to access UTEP resources for this class (i.e., Library). The link below provides information in setting up a VPN connection depending on the operating system. Students may

contact the UTEP Help Desk (915-747-HELP) for assistance (or https://www.utep.edu/technologysupport/ServiceCatalog/NET_VPNGlobalProtect.html).

ExamSoft Technical Support: 866.429.8889 or 954.429.8889

If technical problems are experienced with the course, students should contact the **UTEP Help Desk** Mon-Fri 8AM – 5PM (915.747.4357 or 915.747.5257) or at <http://helpdesk.utep.edu>.

For help with **Blackboard:**

https://www.utep.edu/technologysupport/ServiceCatalog/BB_Students.html

Students can also visit an on-campus lab such as the ATLAS lab located within the Undergraduate Learning Center (UGLC building) for additional technical assistance. To learn more, please visit: https://www.utep.edu/technologysupport/ServiceCatalog/BB_Students.html

UTEP and SOP Policy for Special Accommodations (ADA)

“If you have or suspect a disability and need classroom accommodations, you should contact the Center for Accommodations and Support Services (CASS) at 747-5148.” You can also e-mail the office at cass@utep.edu or go by their office in Union Building East (Room 106). For additional information, visit the CASS website at <http://sa.utep.edu/cass/>. Please discuss your individual CASS accommodations with the course coordinator.

Additional Information

Campus Concealed Carry: Effective August 1, 2016. <https://www.utep.edu/campuscarry/>

Civility Statement: You are expected to follow basic standards of courtesy (<https://www.utep.edu/student-affairs/dean-of-students-office/community-of-care/>) and may be dismissed for blatant or sustained disruptive behavior.

Student Support:

UTEP provides a variety of resources for those in need (e.g., if you feel overwhelmed, stressed or dealing with a crisis):

- UTEP’s Counseling Center (free counseling to all students): **915-747-5302**, which after-hours goes to a crisis line
- Mental Health Crisis Line: **915-779-1800**
- National Suicide Prevention Hotline: 1-800-273-8255 / suicidepreventionlifeline.org
- **Veterans Crisis Line: 1-800-273-8255** / www.veteranscrisisline.net
- NAMI (National Alliance on Mental Illness) of El Paso: 915-534-5478 / <https://namiiep.org>

Title IX:

Title IX of the Education Amendments of 1972 (Title IX), prohibit discrimination on the basis of sex in education programs or activities operated by recipients of Federal financial assistance. Sexual harassment of students, which includes acts of sexual violence, is a form of sex discrimination prohibited by Title IX. Sexual violence refers to physical sexual acts perpetrated against a person's will or where a person is incapable of giving consent due to the victim's use of drugs or alcohol. An individual also may be unable to give consent due to an intellectual or other disability. A number of different acts fall into the category of sexual violence, including rape, sexual assault, sexual battery, sexual coercion, stalking, and relationship violence. All such acts of sexual violence are forms of sexual harassment covered under Title IX.

In accordance with Title IX of the Education Amendments of 1972, UTEP does not discriminate on the basis of sex in the operation of its educational programs and activities. This commitment to non-discrimination applies to both employment in and admission to such programs and activities. [Link to full text at <https://www.utep.edu/titleix/>]



School of Pharmacy

PHAR 6473 (4 Credit Hours) / Track Integrated Systems Based Pharmacotherapy (ISBP); Spring – P2; March 9, 2022 – May 5, 2022; IPPE: 0 hrs/IPE: 0 hrs

Integrated Systems Based Pharmacotherapy IIA2 Course Calendar

Wk	Date	Time (MDT)	Class	Topic	Readings/Assignments (DUE at 11:59 PM MDT unless otherwise specified)	Faculty
Module 1: Infectious Disease - Part I						
1	03/09	9-9:50 AM	1	Intro to Infectious Disease	<ul style="list-style-type: none"> Download/review syllabus Selected Readings (DiPiro) – <i>see Blackboard</i> QUIZ DUE 03/13 by 11:59 pm 	Christenberry
		10-10:50 AM	2			
1	03/10	9-9:50 AM	3	Antimicrobial Pharmacology: Part 1	<ul style="list-style-type: none"> Goodman & Gilman's (G&G) Ch. 52, 57 	Choi
		10-10:50 AM	4			
03/14-03/18: NO CLASS SESSIONS (SPRING BREAK)						
2	03/21	9-9:50 AM	5	Antimicrobial Pharmacology: Part 2	<ul style="list-style-type: none"> G&G Ch. 56 	Choi
		10-10:50 AM	6			Choi
2	03/22	9-9:50 AM	7	Antimicrobial Pharmacology: Part 3	<ul style="list-style-type: none"> G&G Ch. 58, 59 	Choi
		10-10:50 AM	8			Choi
2	03/23	9-9:50 AM	9	Antimicrobial Pharmacology: Part 4 (Antifungal agents)	<ul style="list-style-type: none"> TBD 	Abdelhakiem
		10-10:50 AM	10			Abdelhakiem
2	03/24	9-9:50 AM	11	Antimicrobial Med Chem	<ul style="list-style-type: none"> TBD TBD 	Sirimulla
		10-10:50 AM	12			Sirimulla
3	03/28	9-9:50 AM	13	Antimicrobial Med Chem	<ul style="list-style-type: none"> TBD 	Sirimulla
		10-10:50 AM	14	Antimicrobial Med Chem (Antifungals)	<ul style="list-style-type: none"> TBD 	Sirimulla
3	03/29	9-9:50 AM	15	Antiparasitics Pharmacology	<ul style="list-style-type: none"> G&G Ch. 53-55 	Choi
		10-10:50 AM	16	Antiparasitics MedChem	<ul style="list-style-type: none"> TBD 	Sirimulla
3	03/30	7:30-8:50 AM	EXAM #1 (Classes 1-14)			

Wk	Date	Time (MDT)	Class	Topic	Readings/Assignments (DUE at 11:59 PM MDT unless otherwise specified)	Faculty
3	03/30	9-9:50 AM	17	Antiparasitics Pharmacotherapy	• TBD	Stone
		10-10:50 AM	18			
3	03/31	9-9:50 AM	19	Antivirals Pharmacology	• G&G Ch. 62	Choi
		10-10:50 AM	20			
4	04/04	9-9:50 AM	21	Antivirals Med Chem	• TBD	Sirimulla
		10-10:50 AM	22	Topical fungal infections: Pharmacotherapy	• TBD	Abdelhakiem
Module 2: Infectious Disease - Part II						
4	04/05	9-9:50 AM	23	Upper respiratory Tract Infections: Pathophysiology & Pharmacotherapy	• TBD	Pinal
		10-10:50 AM	24		• TBD	Pinal
4	04/06	7:30-8:50 AM		EXAM #2 (Classes 15-22)		
4	04/06	9-9:50 AM	25	Lower respiratory Tract Infections: Pathophysiology & Pharmacotherapy	• TBD	Pinal
		10-10:50 AM	26		• TBD	Pinal
4	04/07	9-9:50 AM	27	Skin and Soft Tissue Infections: Pathophys & Pharmacotherapy	• TBD	Pinal
		10-10:50 AM	28		• TBD	Pinal
5	04/11	9-9:50 AM	29	Urinary Tract Infection: Pathophys & Pharmacotherapy	• TBD	Pinal
		10-10:50 AM	30		• TBD	Pinal
5	04/12	9-9:50 AM	31	Sexually Transmitted Infections (STI) Pathophysiology	• DiPiro Ch. 135	Choi
		10-10:50 AM	32	STI Pharmacotherapy	• CDC STI Guidelines (see Blackboard)	Choi
5	04/13	9-9:50 AM	33	STI In-Class Cases/TBL	• STI “Muddiest Points”	Choi
		10-10:50 AM	34			Choi
Module 3: Psychiatric Disorders - Part I						
5	04/14	9-9:50 AM	35	Central Nervous System Physiology Review	• Goodman & Gilman’s (G&G) Ch. 14, pages 1-11	Mendez
		10-10:50 AM	36	Pathophysiology of Psychiatric Disorders incl depression, anxiety, conduct disorders, sleep disorders		Mendez
6	04/18	9-9:50 AM	37	Antidepressant Pharmacology	• G&G Ch. 15 (sections on Antidepressants)	Mendez
		10-10:50 AM	38			Mendez
6	04/19	9-9:50 AM	39	Antidepressant Med Chem	• TBD	Sirimulla
		10-10:50 AM	40	Depression Pharmacotherapy Pt. 1	• TBD	Montes

Wk	Date	Time (MDT)	Class	Topic	Readings/Assignments (DUE at 11:59 PM MDT unless otherwise specified)	Faculty
6	04/20	7:30-8:50 AM		EXAM #3 (Classes 23-34)		
6	04/20	9-9:50 AM	41	Depression Pharmacotherapy Pt. 2	• TBD	Montes
		10-10:50 AM	42	AChEI, NMDA Antagonists Pharm	• G&G Ch. 18 (pages 13-15),	Mendez
6	04/21	9-9:50 AM	43	Benzos, Anxiolytics Med Chem	• TBD	Sirimulla
		10-10:50 AM	44	Hypnotics Stimulants Med Chem	• TBD	Sirimulla
7	04/25	9-9:50 AM	45	Stimulants Pharm	• G&G Ch. 18 (pages 22-28),	Mendez
		10-10:50 AM	46	Benzos, Anxiolytics Pharm	• G&G Ch. 15 (sections on Anxiolytics)	Mendez
7	04/26	9-9:50 AM	47	Sedatives, Hypnotics Pharm	• G&G Ch. 15 (sections on Anxiolytics)	Mendez
		10-10:50 AM	48	Anxiolytics, Stimulants, Sed/Hyp Med Chem Review	• TBD	Sirimulla
7	04/27	7:30-8:50 AM		EXAM #4 (Classes 35-47)		
Module 4: Psychiatric Disorders - Part II						
7	04/27	9-9:50 AM	49	Anxiety Disorders Pharmacotherapy	• TBD	Montes
		10-10:50 AM	50		• TBD	Montes
7	04/28	9-9:50 AM	51	OCD/PTSD Pharmacotherapy	• TBD	Montes
		10-10:50 AM	52	Neurocognitive Disorders Pharmacotherapy	• TBD	Montes
8	05/02	9-9:50 AM	53	Sleep/Wake Disorders Pharmacotherapy	• TBD	Montes
		10-10:50 AM	54		• TBD	Montes
8	05/03	9-9:50 AM	55	Neurodevelopmental, Disrupt, Impulse-Control, Conduct Dis Pharmacotherapy	• TBD	Montes
		10-10:50 AM	56	Alcohol, Opioid Abuse Treatment Pharmacology Pt 1	• G&G Ch. 24	Mendez
8	05/04	7:30-8:50 AM		EXAM #5 (Classes 49-55)		
8	05/04	9-9:50 AM	57	Alcohol, Opioid Abuse Treatment Pharmacology Pt 2	• G&G Ch. 24	Mendez
		10-10:50 AM	58	Alcohol, Opioid Abuse Treatment Med Chem	• TBD	Sirimulla
8	05/05	9-9:50 AM	59	Alcohol, Opioid Abuse Disorders Pharmacotherapy	• TBD	Montes
		10-10:50 AM	60		• TBD	Montes
FINAL EXAM (Classes 56-60, Cumulative Component) – Thursday 05/12, 1:00pm-5:00pm						

Commented [MIA1]:

Commented [MIA2R1]: Sirimulla does not cover neurocognitive enhancers (AChEI and NMDA antagonists) or stimulants med chem. Removed from this version of syllabus