



**School of Pharmacy  
Required Course Syllabus  
Spring – P3**

**Course#: PHAR 6476/Track: ISBP**

**Integrated Systems-Based Pharmacotherapy IIIB1**

**Course Dates: January 16<sup>th</sup> - March 5<sup>th</sup>, 2024**

**Scheduled Course Days and Time: Monday-Thursday, 1:00-1:50 and 2:00-2:50**

**Location: Campbell Building Room 212**

**Course Coordinator and Instructor**

Ian A. Mendez, PhD

Assistant Professor

E-mail: [iamendez2@utep.edu](mailto:iamendez2@utep.edu)

Office Hours: Wednesdays from 12pm-1pm, Campbell Building Room 715

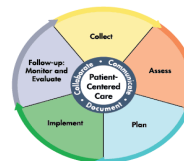
**Additional Course Faculty:**

Name	Position	Email
Christopher Medlin, PharmD, BCPS	Clinical Assistant Professor	<a href="mailto:cgmedlin@utep.edu">cgmedlin@utep.edu</a>
Andre Montes, PharmD	Clinical Instructor	<a href="mailto:agmontes@utep.edu">agmontes@utep.edu</a>
Michelle Martinez, MA, MD	Clinical Instructor	<a href="mailto:pmmartinez2@utep.edu">pmmartinez2@utep.edu</a>
Amanda Loya, PharmD, BCPS	Clinical Associate Professor	<a href="mailto:amloya1@utep.edu">amloya1@utep.edu</a>
Emily Christenberry PharmD, BCPS, BCGP	Clinical Assistant Professor	<a href="mailto:eichristenberry@utep.edu">eichristenberry@utep.edu</a>
Yupeng Li PhD	Assistant Professor	<a href="mailto:yli10@utep.edu">yli10@utep.edu</a>

**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 pharmacotherapy, which includes a practical case lab and an integrated lab. The topics in this course include Toxicology, Psychiatry, Neurology, and Critical Care.

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



[https://www.cdc.gov/dhbsp/pubs/docs/PPCP\\_Guide\\_June2021-508.pdf](https://www.cdc.gov/dhbsp/pubs/docs/PPCP_Guide_June2021-508.pdf)

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## Office Hours

Dr. Mendez is available for in-person office hours, in Campbell 715, on Wednesdays from 12pm-1pm. Students may request an appointment to meet in person or virtually with any course instructor. All appointments should be made at least 24 hours in advance. Questions related to the course in general should be directed to the coordinator, whereas content/topic-specific questions should be directed to the instructor of that content.

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## Detailed Course Meetings & Location

Campbell Building Room 212, 1:00pm-2:50pm, Monday-Thursday, January 16<sup>th</sup> – March 05<sup>th</sup> 2024

All course lectures and exams are scheduled to be held synchronously and in-person. Live streaming and pre-recorded lecture options may be implemented in place of in-person lectures, at the instructors' discretion. If so, changes will be announced ahead of time and made available in blackboard collaborate for viewing. Course activities may be completed in-person or virtually, as described by the instructor. Attendance during in-person synchronous lectures is expected, but not required. Students are, however, required to attend and participate, in-person, in all exams during the scheduled dates and times. Assignment and bonus points can be awarded at any time during in-person lectures as determined by instructors (e.g., in-class assignments or bonus points for attending). Weekly exams will occur on Mondays in Campbell room 212 during regular course hours, unless otherwise stated. The Final Exam will be held on Thursday, March 7<sup>th</sup> from 1:00pm to 3:50pm in Campbell Building Room 212. Copies of exam keys will be available for review during Dr. Mendez's Office Hours, in Campbell 715, on Wednesdays from 12pm-1pm. The course coordinator may adapt the syllabus/course calendar at any time to support student and course success. Check your UTEP email regularly for announcements.

In a major disruption (e.g., health pandemic, inclement weather), be prepared to maintain course progress via other means (e.g., Internet, our Blackboard course shell, etc.) and check your email (especially your UTEP miners account) regularly.

### Online Platform/Blackboard:

This semester the course will be taught using Blackboard as the primary learning management system. *Accessing Course Content on Blackboard:* All lectures, handouts, and course material will be located in Blackboard. Log into [www.my.utep.edu](http://www.my.utep.edu) and click on the Blackboard link to access the online course for PHAR 6476. 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 Laptop 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®. Students are responsible for creating their online login within the first 3 days of class. If students cannot access their online account, please contact Adrian Enriquez (aealonso@utep.edu), to resolve this issue within 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.

Students are responsible for having a functional laptop that is up to date and meets all Examsoft® requirements needed for testing, including a functional camera and microphone. Laptops are available to check out as a loan for exams from the UTEP Independent Learning Center and students should make early arrangements for securing laptops. Students who show up to an exam without a laptop meeting the described requirements will be provided a paper exam but may receive a grade deduction or a professionalism referral to the SOP Progression Committee. Electronic exams need to be downloaded at a minimum of 2 hours prior to the examination to avoid a grade penalty deduction. Repeated instances (> 1 time) of not downloading electronic exams may result in a referral to the professionalism committee on the SOP Progression Committee and may receive a grade deduction from the student’s earned exam score.

**Course Objectives mapped to National Pharmacy Education Outcomes**

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

Course Learning Objectives	CAPE Outcomes	NAPLEX	Level of Assessment	Outcome Measures
<b>Objective 1:</b> Apply the basic anatomy and physiology concepts to understand the cellular and molecular organization of the system	1.1		R	Exams, Quizzes, Class Assignments
<b>Objective 2:</b> Describe the pathophysiology responsible for all disease states covered.	1.1		R	
<b>Objective 3:</b> Classify the structure-activity relationships (SARs) to drug receptor/target interactions	1.1	2.2.3, 2.2.5	R	
<b>Objective 4:</b> Identify SARs with regard to characteristic pharmacophores and drug-receptor interactions for specific drugs and drug classes.	1.1	2.2.3, 2.2.5	R	
<b>Objective 5:</b> 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	1.2.4, 1.2.5, 1.2.7, 1.2.10	R	
<b>Objective 6:</b> Apply the general principles of drug pharmacokinetics/pharmacodynamics and pharmacogenomics into the drug therapy plan.	1.1	1.2.11, 1.2.12	R	
<b>Objective 7:</b> Integrate pathophysiology concepts and basic principles of pharmaceutical sciences into the therapeutic decision-making process	1.1		R	
<b>Objective 8:</b> Describe the etiology, incidence, and prognosis associated with disease states covered, including toxicological conditions.	1.1		R	
<b>Objective 9:</b> Recognize the major signs, symptoms, and clinical findings associated with each disease state, including toxicological conditions	1.1	1.1.4, 1.1.5	R	

<b>Objective 10:</b> Identify usual medication doses, dosage forms, adverse drug reactions, and monitoring parameters of drug classes	1.1	1.2.1, 1.2.8, 1.2.10, 1.2.14	<b>R</b>	
<b>Objective 11:</b> 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 (e.g. pediatrics, geriatrics, multiple disease states).	2.1 3.1	1.2.2, 1.2.3, 1.2.6, 1.2.9, 1.2.13	<b>R</b>	

### Expectations of Students during Course

Students are expected to be professionals and will be treated as such. Any behavior that impairs students' 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 taking notes. Using laptops for activities other than taking notes may cause a disruption to the class around you. It is the responsibility of the student to monitor his/her progress during the course and see that they are maintaining the required competency level. Students should seek advice and assistance from the course coordinator as soon as they encounter any difficulty in the course.

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### Methods of Instruction/Learning

This semester, the course will be taught synchronously in-person. UTEP or SOP may change to primarily online course if major disruption (e.g., pandemic, weather). For tips on succeeding in an online environment, see: <https://www.utep.edu/extendeduniversity/utepconnect/blog/february-2017/tips-for-online-learning-success.html>.

*The learning outcomes in this course will be achieved via:*

1. **Outside Preparation:** Student will be expected to complete the reading assignments and reviewing the slides and/or handouts before class in order to participate actively during class discussions
2. **Lectures:** Reinforces essential, complex information and models the processes of problem solving.
3. **Interactive Activities:** Class or online discussion and active learning strategies will be employed throughout the course to promote critical thinking and to strengthen understanding of principles.
4. **Exams/Quizzes:** Allows students to demonstrate the course ability outcomes and instructors to determine content comprehension.

### Required Course Technology/Tools/Needs

Required Textbooks:

- Brunton LL. *Goodman & Gilman's The Pharmacologic Basis of Therapeutics*. 13<sup>th</sup> ed. ISBN 978-0071624428. Available in Access Pharmacy.

- DiPiro JT, et. al. *Pharmacotherapy: A Pathophysiologic Approach*, 11<sup>th</sup> ed. ISBN 978-1260116816. Available in Access Pharmacy.
- Nelson, L.S., et. al. *Goldfrank's Toxicologic Emergencies*. 11<sup>th</sup> ed. ISBN 978-1259859618. Available in AccessPharmacy.

#### Recommended Textbooks:

- Beale JM. *Wilson and Gisvold's Textbook of Organic Medicinal and Pharmaceutical Chemistry*. 12<sup>th</sup> ed. ISBN 978-0781779296.
- Bertino JS. *Pharmacogenomics: An Introduction and Clinical Perspective*. 1<sup>st</sup> ed. 978-0071741699. Available in AccessPharmacy.
- Golan DE. *Principles of Pharmacology: The Pathophysiologic Basis of Therapeutics*. 4<sup>th</sup> ed. ISBN 978-1451191004.
- Jameson JL. *Harrison's Principles of Internal Medicine*. 20<sup>th</sup> ed. ISBN 978-1-259-64403-0. Available in AccessPharmacy.
- Katzung BG. *Basic and Clinical Pharmacology*. 14<sup>th</sup> ed. ISBN 978-1259641152. Available in AccessPharmacy.
- LeFever Kee J. *Handbook of Fluids, Electrolytes, and Acid-Base Imbalances*. 3<sup>rd</sup> ed. ISBN 14353689. Available in Pharmacy E-Books.
- Morton DA. *The Big Picture: Gross Anatomy*. 1<sup>st</sup> ed. ISBN 978-0071476720. Available in AccessPharmacy.
- Murphy JE. *Clinical Pharmacokinetics*. 6<sup>th</sup> ed. ISBN 978-1585285365.
- Zdanowicz M. *Concepts in Pharmacogenomics*. 2<sup>nd</sup> ed. ISBN 978-1585285167.
- Johnson JA. *Pharmacogenomics: Applications to Patient Care*. 3<sup>rd</sup> ed. ISBN 978-1939862099.
- Krinsky DL. *Handbook of Nonprescription Drugs: An Interactive Approach to Self-Care*. 19<sup>th</sup> ed. ISBN 978-1582122656. Available in PharmacyLibrary.
- Hammer GD. *Pathophysiology of Disease: An Introduction to Clinical Medicine*. 7<sup>th</sup> ed. ISBN 978-0071806008. Available in AccessPharmacy.
- Bauer LA. *Applied Clinical Pharmacokinetics*. 3<sup>rd</sup> ed. ISBN 978-0071794589. Available in AccessPharmacy.

#### Laptop Computers:

- Students are expected to be ready to use their laptops each class day for participation in on-line exercises or assessments. It is the responsibility of the students to make sure that the laptops are in working condition, including a functioning microphone and camera, and meets University and School of Pharmacy IT requirements (See SOP Student Handbook).
- Students should be ready at any time to share their screen, camera, or audio with classmates/faculty for online course learning situations.
- If you have not already, go to <https://app.reef-education.com> to create a FREE iClicker account. Search for UTEP in the institution dropdown, enter your FIRST and LAST name and email address. If you already have an iClicker account, you will be able to add PHAR 6476 ISBP IIIB1 to your course list. More instructions on how to access the course will be provided to you either on Blackboard and/or the first day of class.

#### Calculator

- Students are expected to bring a four-function, non-programmable calculator to class and to all assessment activities. ExamSoft® also provides a calculator within the testing platform that students can use.

Software/Technology must be tested in orientation/first week of courses to ensure functionality.

- ExamSoft® Exam Monitor
- Blackboard® Collaborate: Chrome Browser
- Microsoft® Teams
- Audio (speaker & microphone) and video (camera) MUST be checked to be functional should any classes or exams be held online.

### Online Etiquette

Students are expected to be professionals during online activities that may occur during this course. Any behavior that impairs students' abilities to learn online will not be tolerated. Laptops may be used during class for taking notes. As with in-person activities, using your laptop for activities other than taking notes may cause a disruption to online activities. Please keep your microphones muted during live lectures and discussions, unless otherwise requested by the instructor. If you would like to comment, please use raise hand or text chat options.

**Online Netiquette:** 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/technologysupport/Files/docs/BB\\_Netiquette-Guide-for-Online-Courses.pdf](https://www.utep.edu/technologysupport/Files/docs/BB_Netiquette-Guide-for-Online-Courses.pdf)

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### Evaluation and Grading Policy

Course point distribution will be as follows:

Type of Assessment	Total Points	% Course Grade
Participation and Assignments	20	8
Exam 1	36	15
Exam 2	28	11
Exam 3	32	13
Exam 4	28	11
Exam 5	28	11
Final Exam	78	31
<b>Total Points</b>	<b>285</b>	<b>100</b>

### Assignment of grades:

**A = 90 – 100%**

**B = 80 – 89%**

**C = 70 – 79%**

**D = 60-69%**

**F = < 60%**

Exams: All Assessments will be administered via ExamSoft®, unless noted otherwise. Five weekly exams and one final exam are scheduled. Refer to the course calendar for dates, times, and topics. Students are expected to participate in the exams during the scheduled dates and times. \*Please make sure latest version of ExamSoft's Examplify is installed on your laptop.

Assignment Points: Assignment points will be assigned based on completion of course activities and assignments developed by the instructors. This may include class discussions, iclicker questions, pop quizzes, writing assignments, attendance, or any other activities deemed appropriate by the instructor.

Bonus Points: Instructors may give bonus points at their own discretion at any point during the course.

### **Missed Exams, Activities, and Assignments Policy**

#### Unexcused Absence:

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

#### Excused Absence Procedures:

- The course coordinator, content instructor, and Director of Student Affairs (Mrs. Carmen Ramos: crtorres2@utep.edu) MUST be notified **prior** to the missed activity for the student to be excused from that activity.
- In the case of religious holidays, the student MUST notify the course coordinator 10 business days prior to the exam.
- 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.
- If the activity or an assignment due date is missed, then at the discretion of the coordinator and instructors, a make-up activity or assignment may be developed and scheduled.
- If an examination is missed, students will take a make-up exam that will be developed and scheduled at the discretion of the coordinator and instructors.
- 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.
- Make-up exam format and date will be determined by the coordinator and content instructors, and must be taken before the final exam.
- Questions and format of make-up exams, activity, or assignment may differ from original.

Students should consult the UTEP School of Pharmacy Student Handbook for definitions and examples of excused absences.

### **Remediation Policy**

If a student fails the course, remediation will be offered after completion of the course. Students must participate fully in the course to be eligible for remediation. Please refer to the Student Handbook for

further information and end-of-course remediation policies and timelines (*see Table of Contents for End of Course Remediation*). There will be no in-course remediation of any assessment or assignment.

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## Exam Requirements and Guidance

### Exam Day Policy

Students are expected to arrive at least 10 minutes prior to the start of all course exams and start exams on time. If the student arrives after the examination has started, no additional time will be provided for the examination. If another student has already completed his/her exam and left the exam room when an unexcused late student arrival occurs, the late arrival will not be permitted to sit for the exam and will receive a grade of zero. No allowances will be made for an exam being missed, other than an excused absence. The student must contact the course coordinator, instructor, and Director of Student Affairs (Mrs. Carmen Ramos: crtorres2@utep.edu) for confirmation of excused absence as soon as possible and *prior* to the exam. If exam absence is excused, it is the student's responsibility to contact the course coordinator to arrange for a make-up exam. In this event, the nature of the make-up will be at the discretion of the course coordinator and instructors (oral, written, multiple choice, etc.). An unexcused absence from an exam may result in a grade of "zero" for that exam. Students should reach out to coordinator prior to the exam if they are unclear about the guidance and requirements. Not understanding the guidance and requirements is not an excuse for failing to follow them.

### Expectations Prior and During Examination

*Room:* All exams will occur in Campbell Building room 214. Students are not permitted to be in the examination room prior to assigned seating.

*Seating:* Randomized assigned seating will be utilized for each examination.

*Bathroom breaks:* No bathroom breaks are permitted during examinations unless prior accommodation is made. Faculty maintain discretion over the permissibility of bathrooms breaks. No additional time will be provided for examinations when restroom breaks occur.

*Exams:* Electronic exams need to be downloaded at a minimum 2 hours prior to the examination. During an exam, if a student has any questions/concerns regarding exam questions, they may call on the exam proctor or type the questions/concerns on the Notes section within Exemplify. *If approved by the exam proctor*, students may contact ExamSoft support for any technical issues during an exam. This would be the only scenario where students will be allowed to use their cell phones. Students must make sure to request a case/ticket number from ExamSoft, as must be submitted to the course coordinator. The contact information for ExamSoft Support should be saved to your phones: ExamSoft Technical Support 866.429.8889 or 954.429.8889.

### Availability of items during exam

- Exam proctor will provide scratch paper for examinations, unless coordinator determines scratch paper is not necessary. Only exam proctors will provide scratch paper, and only scratch paper provided by the School of Pharmacy can be used during the examination. Any scratch paper utilized during an examination must have the student's name and date on every page and all pages must be turned in at the completion of the examination. Any exemption will be noted by the exam proctor.
- No backpacks, sunglasses, purses, hats, large coats and/or other bulky clothing permitted; these items need to be left in an area in the exam room designated by the exam proctor.
- No food or drink allowed during an exam, unless approved by exam proctor or coordinator.



- No electronic devices (for example: smart watches, phones, calculators, etc.) are permitted on the student during an examination unless approved by the instructor prior to the examination or inspected upon entry into the exam room for approval. Four-function, non-programmable calculators can be used during exams, but may be inspected by instructor prior to use.
- Disruption of examination time due to an electronic device can result in a grade penalty as stipulated in the syllabus.

### Laptop Requirements

Checking laptop requirements and ensuring that all software up to date is essential for students to access course content. **Supported browsers include** – For a PC: Mozilla, FireFox, Google Chrome (Do NOT use Internet Explorer) and for a Mac: Safari, Firefox, and Google Chrome. 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 laptop 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 plugins 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 also provide students with any applications, compatibility packs, patches, and updates that may be needed. Students working off campus may need to set up a Virtual Private Network (VPN) on their laptop 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 Help Desk for assistance. If technical problems are experienced with the course, students should contact the UTEP Helpdesk during: Monday– Friday: 8AM – 5PM. If calling within UTEP: 915.747.4357. If calling from outside UTEP: 915.747.5257. For more information, please visit <https://www.utep.edu/technologysupport>. For help with Blackboard: [https://www.utep.edu/technologysupport/ServiceCatalog/BB\\_Students.html](https://www.utep.edu/technologysupport/ServiceCatalog/BB_Students.html). In order for UTEP to provide a stable learning environment, Thursdays from 12:00-6:00am MST are reserved for minor preventive maintenance. This maintenance window is scheduled during the lowest usage time for the system. Blackboard may or may not be available during this time, depending on whether maintenance is necessary. Whenever possible, this time will be utilized to perform all minor maintenance. Unscheduled outages occur rarely, but they do happen. In the event of an unscheduled outage, Technology Support Services will confer with appropriate student and faculty networks to provide appropriate notifications to those affected. 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. In addition to the various campus computer labs (ATLAS in UGLC or LACIT in Liberal Arts for example), Technology Support Services provides workstations for student use. To learn more, please visit: [https://www.utep.edu/technologysupport/ServiceCatalog/COMP\\_ComputerPrintingLabs.html](https://www.utep.edu/technologysupport/ServiceCatalog/COMP_ComputerPrintingLabs.html)

**For additional information, 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>.**

### **Attendance**

The attendance policy for the School of Pharmacy is outlined in the Student Handbook. It is expected that students should demonstrate their commitment to the profession and respect for faculty, guest speakers, and colleagues by attending all classes and arriving to class on time prepared for the day's lessons.

*Attendance is required for all exams. While attendance is expected, but not required for other classes. Assignment or bonus points may be given during in-person lectures (including bonus points for attending class), as deemed appropriate by the course instructors. Course coordinator reserves the right to adjust attendance policies in the case of a major disruption.*

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### **Questions Related to the Course and Grading/Exams**

Content: 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.

Exams, Activities, and Assignments: Any questions concerning exams, activities, and assignments should be discussed with the course coordinator within **5 business days** after the grade has been posted.

Regrade Request: Regrade requests for assignments or exams should also be made within **5 business days** of the posting of the grade.

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### **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 [www.my.utep.edu](http://www.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.

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### **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, safety 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.

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### **UTEP and SOP Policy for Academic Integrity**

Any student who commits an act of academic dishonesty is subject to discipline. The instructor is required to report all suspected academic dishonesty to the UTEP Office of Student Conduct and Conflict Resolution. Please refer to the Student Handbook for SOP guidance on academic integrity (*see Table of Contents for Curriculum and Classroom Policies: Academic Integrity*).

Academic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for full 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](http://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>)

### **Use of Artificial Intelligence**

Use of AI technologies or automated tools, particularly generative AI such as ChatGPT or DALL-E, is **not allowed** for assignments in this class. Each student is expected to use critical and creative thinking skills to complete tasks and not rely on computer-generated ideas. Any direct use of AI-generated materials submitted as your own work will be treated as plagiarism and reported to the Office of Student Conduct and Conflict Resolution (OSCCR).

### **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 more 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 Table of Contents for Academic Progression: Good Standing: Professional*).

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### **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](mailto: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/>

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### **Additional Information**

#### COVID Precaution Statement

Students who attend in-person activities and are concerned about contracting COVID are encouraged to wear a face mask while such meetings are taking place, maintain social distance as much as possible, and practice proper hygiene practices. Minimize the number of encounters with others, particularly in classrooms, elevators, and stairwells, to avoid infection. 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](mailto:crtorres2@utep.edu) know as soon as

possible, so that we can work on appropriate accommodations. The Student Health Center is equipped to provide COVID-19 testing. 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. For more information about the current rates, testing, and vaccinations, please visit [epstrong.org](http://epstrong.org).

**Campus Concealed Carry:**

See UTEP's [Campus Carry](#) policy, effective August 1<sup>st</sup> 2016, for more information.

**Civility Statement:** You are expected to follow basic standards of courtesy as described in UTEP [Community of Care](#) and may be dismissed from class for blatant or sustained disruptive behavior.

**Cell Phone Policy (Optional for Faculty to adapt):** 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. Cell phone use for the purpose of texting, email or social media is not permitted. This is disruptive to fellow classmates, faculty and the learning environment. 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 faculty member/instructor.

**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): 747-5302, which after-hours goes to a crisis line
- Mental Health Crisis Line: 779-1800
- National Suicide Prevention Hotline: 1-800-273-8255
- Veterans Crisis Line: 1-800-273-8255
- NAMI (National Alliance Against Mental Illness) of El Paso: 534-5478
- <http://caringeducators.tumblr.com/survival>

**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

Course # PHAR 6476 (4 Credit Hours) / Track Integrated Systems Based Pharmacotherapy (ISBP)

Course Dates (January 16<sup>th</sup>, 2024 – March 05<sup>th</sup>, 2024), MTWTh 1:00-1:50 and 2:00-2:50, IPPE: 0 hrs/IPPE: 0 hrs

### PHAR6476: Course Calendar and Topic Outline

Week	Date	Class	Topic	PharmSci	PPCS		Readings
1 (6 hrs)	Tuesday 01/16/24	<b>Module 1: Toxicology</b>					
		Class 1	Course Intro/Toxicological Patient Care Process <i>Pharmacotherapy</i>	Mendez	Martinez		DiPiro Ch e7
		Class 2	Envenomation <i>Pharmacotherapy</i>		Martinez		Goldfrank Ch 115, 119
	Wednesday 01/17/24	Class 3	TCA/SSRIs/NSRIs/Antipsychotics <i>Pharmacotherapy</i>		Martinez		Goldfrank 67-69
		Class 4	Aspirin <i>Pharmacotherapy</i>		Martinez		Goldfrank Ch 37
	Thursday 01/18/24	Class 5	Acetaminophen <i>Pharmacotherapy</i>		Martinez		Goldfrank Ch 33, A3
Class 6		Toxic Alcohols <i>Pharmacotherapy</i>		Martinez		Goldfrank Ch 106	
2 (8 hrs)	Monday 01/22/24	Class 7	Hallucinogens <i>Pharmacotherapy</i>		Martinez		Goldfrank Ch 79
		Class 8	Stimulants <i>Pharmacotherapy</i> (ie, Cocaine, Amphetamines)		Martinez		Goldfrank Ch73, 75
	Tuesday 01/23/24	Class 9	Other Substances <i>Pharmacotherapy</i> (ie, BZD, CBD, Synthetic cathinone)		Martinez		Goldfrank Ch74, A26
		<b>End of Material for Exam 1</b>					
	<b>Module 2: Neurology</b>						
		Class 10	Movement Disorders <i>Pathophysiology</i>	Mendez			G&G Ch14 p1-11
	Wednesday 01/24/24	Class 11	Parkinson's Disease <i>Pharmacology</i>	Mendez			G&G Ch18 p1-12
		Class 12	Parkinson's Disease <i>Medicinal Chemistry</i>	Li			
Thursday 01/25/24	Class 13	Parkinson's Diseases <i>Pharmacotherapy</i>		Loya		Dipiro eCh78	
	Class 14	Parkinson's Diseases <i>Pharmacotherapy</i>		Loya		Dipiro eCh78	
3 (8 hrs)	Monday 01/29/24	Class 15	<b>Exam 1: Class 1-9</b>				
		Class 16					
	Tuesday 01/30/24	Class 17	Multiple Sclerosis <i>Pharmacology</i>		Loya		Dipiro eCh74
		Class 18	Multiple Sclerosis <i>Pharmacotherapy</i>		Loya		Dipiro eCh74
	<b>End of Material for Exam 2</b>						
	Wednesday 01/31/24	Class 19	Epilepsy <i>Pathophysiology</i>	Mendez			G&G Ch17 p1-10
Class 20		Antiepileptics <i>Pharmacology</i>	Mendez			G&G Ch17 p10-32	
Thursday 02/01/24	Class 21	Antiepileptics <i>Pharmacology</i>	Mendez			G&G Ch17 p10-32	
	Class 22	Antiepileptics <i>Medicinal Chemistry</i>	Li				
4 (8 hrs)	Monday 02/05/24	Class 23	<b>Exam 2: Class 10-14, 17-18</b>				
		Class 24					
	Tuesday 02/06/24	Class 25	Epilepsy <i>Pharmacotherapy incl clin pharmacokinetics/genomics</i>		Montes		
		Class 26	Epilepsy <i>Pharmacotherapy incl spec pop, pharmacogenomics</i>		Montes		
	Wednesday 02/07/24	Class 27	Epilepsy <i>Pharmacotherapy incl toxicology</i>		Montes		
		Class 28	Status Epilepticus <i>Pharmacotherapy incl special populations</i>		Montes		
	<b>End of Material for Exam 3</b>						
	<b>Module 3: Psychiatry</b>						
Thursday 02/08/24	Class 29	Bipolar/Schizophrenia <i>Pathophysiology</i>	Mendez			G&G Ch16 p1-11	
	Class 30	Bipolar/Schizophrenia <i>Pharmacology</i>	Mendez			G&G	

Week	Date	Class	Topic	PharmSci	PPCS		Readings	
							Ch16 p12-35	
5 (8 hrs)	Monday 02/12/24	Class 31	<b>Exam 3: Class 19-22, 25-28</b>					
		Class 32						
	Tuesday 02/13/24	Class 33	Bipolar/Schizophrenia <i>Pharmacology</i>	Mendez			G&G Ch16 p12-35	
		Class 34	Bipolar/Schizophrenia <i>Medicinal Chemistry</i>	Li				
	Wednesday 02/14/24	Class 35	Bipolar <i>Pharmacotherapy</i>		Montes			
		Class 36	Schizophrenia <i>Pharmacotherapy</i>		Montes			
	Thursday 02/15/24	Class 37	Schizophrenia <i>Pharmacotherapy incl special populations</i>		Montes			
		<b>End of Material for Exam 4</b>						
<b>Module 4: Critical Care</b>								
		Class 38	Pain/Agitation/Delirium <i>Pathophysiology</i>	Mendez			G&G Ch20 p16-22	
6 (8 hrs)	Monday 02/19/24	Class 39	<b>Exam 4: Class 29-30, 33-37</b>					
		Class 40						
	Tuesday 02/20/24	Class 41	Pain/NMBs/Sedatives <i>Pharmacology</i>	Mendez			G&G Ch21 p1-33	
		Class 42	Anesthetics <i>Pharmacology incl local and general</i>	Mendez			G&G Ch22 p1-14	
	Wednesday 02/21/24	Class 43	Pain/Anesthetics/Sedatives/NMBs <i>Medicinal Chemistry</i>	Li				
		Class 44	Pain/Agitation/Delirium <i>Pharmacotherapy</i>		Medlin			
	Thursday 02/22/24	Class 45	Pain/Agitation/Delirium <i>Pharmacotherapy</i>		Medlin			
		Class 46	NMBs <i>Pharmacology review and Pharmacotherapy incl ARDS</i>		Medlin			
<b>End of Material for Exam 5</b>								
7 (8 hrs)	Monday 02/26/24	Class 47	<b>Exam 5: Class 38, 41-46</b>					
		Class 48						
	Tuesday 02/27/24	Class 49	Circulatory System <i>Pathophys Shock Pharmacology review</i>		Medlin			
		Class 50	Hypovolemic Shock <i>Pharmacotherapy incl blood products</i>		Medlin			
	Wednesday 02/28/24	Class 51	Distributive Shock <i>Pharmacotherapy</i>		Medlin			
		Class 52	Distributive Shock (inc Anaphylaxis) <i>Pharmacotherapy</i>		Medlin			
	Thursday 02/29/24	Class 53	Cardiogenic & Obstructive Shock <i>Pharmacotherapy</i>		Medlin			
		Class 54	ICU Support Care <i>Pharmacotherapy incl SUP VTE ppx gluc mgmt</i>		Medlin			
8 (4 hrs)	Monday 03/04/24	Class 55	Traumatic Brain/Spinal Cord Inj <i>Patho/Pharmacology/Pharmacotherapy incl spec pop</i>		Medlin			
		Class 56	Advanced Cardiovascular Life Support <i>Pharmacotherapy</i>		Medlin			
	Tuesday 03/05/24	Class 57	Pain Agitation Delirium in Non-Critical Care Patients <i>Pharmacotherapy</i>		Christenberry			
		Class 58	Geriatric Syndromes <i>Pharmacotherapy (ie dysphagias and frailty)</i>		Christenberry			
<b>Final Exam Part 1: 03/06/24 1:00pm-2:50pm, Location: Campbell 212 (Class 49 – Class 58)</b>								
<b>Final Exam Part 2: 03/07/24 1:00pm-2:50pm, Location: Campbell 212 (Cumulative Component)</b>								

\*\* This topical outline will be followed as closely as possible throughout the semester; however, the instructor(s) reserve the right to adjust the course schedule deemed necessary\*\*