



**School of Pharmacy
Required Course Syllabus**

Spring – P3, 2023

**PHAR 6477 / Track: Integrated Systems Based Pharmacotherapy (ISBP IIIB2)
Oncology Pharmacotherapy**

Course Dates (March 8 – May 3, 2023)

Scheduled Course Time: MTWTh, 1:00pm-2:50pm

Location: Campbell Room 212

Course Coordinator

Yong Qin, Assistant Professor	
Office Room Number: CABL 508 Office Phone: (915) 747-5842 E-mail: yqin@utep.edu	OFFICE HOURS: In-person (room CABL 508) or virtual (MS Teams) 11:30 am – 12:30 pm every Friday

Course Faculty

Mary L. Chávez, PharmD, FAACP Consultant MS Teams: Texts Email: mlchavez11@utep.edu	Scott Weston, RPh, MBA, PhD Associate Dean for Academic Affairs/Professor Phone: (915) 747-8242 E-Mail: gsweston@utep.edu
Denise I. Pinal, PharmD, BCPPS Clinical Assistant Professor Phone: (915) 747- 5884 Email: denisepi@utep.edu	Yasar Tasnif, PharmD, BCPS, FAST Clinical Pharmacist Educator Transplant Specialist Office: UWorld RxPrep, Dallas E-Mail: yotasnif@utep.edu

Course Teaching Assistant

Name: **TBN**

Contact Information: **TBN**

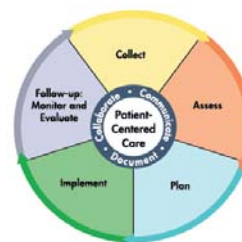
Office Hours

The Office hours could be in-person or virtual. Students may request an appointment with the coordinator in person or via e-mail. Individual guest faculty should provide office hours during lecture days. All appointments should be made at least 2 business days in advance. The faculty will announce their specific office hours in the class or through Blackboard course email.

Virtual Office Hours will be synchronous through a UTEP-approved platform (e.g., Microsoft Teams, Blackboard, or Zoom) and will be used to discuss problematic exam questions and any course logistic problems. The course coordinator will try to respond as soon as possible (generally within 24-48 hours). When sending an email, send through the Blackboard® course email or place the course number and name (e.g., PHAR 6203 and the issue/topic in the subject line of the email).

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 application lab and an integrated lab. The topics in this course include Toxicology, Psychiatry, Neurology, and Critical Care.



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

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:

Course Objectives	CAPE	PCOA/Naplex	Assessment
Objective 1: Apply the basic anatomy and physiology concepts necessary to understand the cellular and molecular organization of the system	1.1	4.2.1	Exams
Objective 2: Describe the pathophysiology responsible for all disease states covered.	1.1	4.2.1	
Objective 3: Classify the structure-activity relationships (SARs) to drug receptor/target interactions.	1.1	2.1.4	
Objective 4: Identify SARs with regard to characteristic pharmacophores and drug-receptor interactions for specific drugs and drug classes.	1.1	2.1.3 2.1.6	
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, 2.2.3, 2.2.4 2.2.6	
Objective 6: Apply the general principles of drug pharmacokinetics/pharmacodynamics and pharmacogenomics into the drug therapy plan.	1.1 2.1	2.2.2	

Objective 7: Integrate pathophysiology concepts and basic principles of pharmaceutical sciences into the therapeutic decision-making process.	1.1 2.1	4.2.1 4.1.5
Objective 8: Describe the etiology, incidence, and prognosis associated with disease states covered, including toxicological conditions.	1.1	4.1.5
Objective 9: Recognize the major signs, symptoms, and clinical findings associated with each disease state, including toxicological conditions	1.1	4.1.5 4.7.8
Objective 10: Identify usual medication doses, dosage forms, adverse drug reactions, and monitoring parameters of drug classes.	1.1	4.3.2, 4.5.1, 4.7.1, 4.7.2, 4.7.3, 4.7.9
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 (e.g. pediatrics, geriatrics, multiple disease states)	2.1 3.1	4.1.4, 4.3.1, 4.4.1, 4.5.1, 4.7.1, 4.7.2, 4.7.3, 4.7.5, 4.7.6

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

Additional / Detailed Course Meetings & Location

Course Dates: March 8 – May 3, 2023

Scheduled Course Time: MTWTh, 1:00pm-2:50pm

Location: Campbell Room 212 – Lectures

To date, all the lectures are planned to be held **in person**. Some of the sections will be synchronous (live via an online platform) according to the instructors. The participation and attend the lectures are required. For the students' and faculty's safety, the course will be adjusted accordingly to the online platform based on the situation of the Pandemic.

If certain activities are held in a different place, the changes will be announced through Course Blackboard prior to the lecture date.

In a major disruption (e.g., Covid-19, H1N1 epidemic, subzero 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.

EXAM

Exams (1-5) will be held on **Tuesday morning from 7:30-8:50 AM on ExamSoft. (Room CABL 214)**

Final Exam time and date: **May 10, 2023 (1pm - 3:45pm).**

In a major disruption (e.g., H1N1 epidemic, subzero 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:

Accessing Course Content on **Blackboard**: All lectures, 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 6477. 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**®. 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 SOP Progression Committee and may result in an additional 10% grade penalty deduction from the student’s earned exam score.

iClicker

If you have not already, go to <https://www.iclicker.com/> to create a FREE iClicker account. Search for UTEP in the institution dropdown, enter your FIRST and LAST name and miners.utep.edu email address. If you already have an iClicker account, you will be able to add PHAR 6477 ISBP IIIB2 to your course list.

Zoom Meeting Room

Some course may be taught through Zoom meeting room upon the request of off-site instructors.

Methods of Instruction/Learning

Appropriate technology will be incorporated in the course activities to aid the course administration and learning process. The learning outcomes in this course will be achieved via:

In-class Lectures: Lectures will include information from listed textbooks and other sources. Lecture presentations will be posted on-line. These materials are not intended to contain all the information from the lectures, and they are not intended as an after-the-fact substitute for attending the lecture. They are intended to assist students in assimilating and integrating facts and ideas from the lectures as they are presented, and to spare students from having to spend time during lectures copying down structures and diagrams. Lectures will include in-class activities and cases to guide students in learning and applying.

Exams: There will be three **in-person** exams. Exams 1 and 2 will be evaluated by individual exams on ExamSoft and Group Problem Solving. The final exam will be a comprehensive individual exam for lectures 1-26. All three exams will be weighted in **80%** of the student's final score. ATTENDANCE AND PARTICIPATION ARE MANDATORY FOR GROUP PROBLEM SOLVING IN THE EXAM 1 AND 2! No make-up exam will be offered for the Group Problem Solving.

Quizzes/Case Studies: Instructors will provide in-class quizzes/case studies for students. The instructors will determine whether to award points for the quizzes/case studies as Class Activities or Assignments. Some practical quizzes/case studies will not be counted into the grade. NO make-up quizzes/case studies will be offered if the student miss the quizzes.

Assignments: Grading will be based on individual performance. The assignment will be announced through the course blackboard. There will be no credit given to students who miss the assignment. The need for a potential extension to turn in the assignment should be requested at least 24 hours ahead of the deadline and approved by the relevant instructor.

Lecture Videos: Instructors will provide lecture videos related to the course content on Blackboard. The lecture videos could be prerecording or synchronized videos. The instructors will determine the format and contents of records individually. The record is facilitation for learning, which should be considered as a replacement for the attendance of classes.

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. <https://0-accesspharmacy-mhmedical-com.lib.utep.edu/content.aspx?bookid=2577§ionid=248126979>
- 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*. 14th ed. ISBN 978-1259641152. Available in AccessPharmacy.
- LeFever Kee J. *Handbook of Fluids, Electrolytes, and Acid-Base Imbalances*. 3rd ed. ISBN 14353689. Available in Pharmacy E-Books.
- 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/Tablet/iPad:

Students are expected to bring laptops/Tablets/iPads to the class each day for participation in on-line exercises or assessments. It is the responsibility of the students to make sure that the laptops/Tablets/iPads are in working condition and meets the University and School of Pharmacy IT requirements (See SOP Student Handbook).

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 miners.utep.edu email address. If you already have an iClicker account, you will be able to add PHAR 6477 ISBP IIB2 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 non-programmable calculator to class and to all assessment activities.

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

- ExamSoft® Exam Monitor
- Blackboard® Collaborate: Chrome Browser
- Microsoft® Teams
- Blackboard® Respondus Lockdown
- iClicker REEF mobile app or website
- Zoom Meeting
- Audio (speaker & microphone) and video (camera) MUST be checked to be functional for classes and online exams

Evaluation and Grading Policy

Type of Assessment	Total Points	% course Grade
Exam 1 (Lectures 1-10)	40	13.3 3
Exam 2 (Lectures 11-22)	48	16
Exam 3 (Lectures 23-33)	44	14.6 7
Exam 4 (Lectures 34-44)	44	14.6 7
Exam 5 (Lectures 45-52)	32	10.6 7
Final Exam: Lectures 53-58 [24 questions, 24 points] + 52 questions (Lectures 1-52, 0.6/each)	55.2	18.4
Class assignments, group activities, and quizzes	26.8	8.93
Participate Points (Attendance)	10	3.33
Total Points	300	100

Assignment of grades:

A = 90 – 100%

B = 80 – 89%

C = 70 – 79%

D = 60-69%

F = < 60%

Class Assignments and Activities:

Faculty may assign **in-class or** pre-class assignments such as reading or watching “micro-lecture” videos to assist with outside class preparation. This may be done utilizing Panopto or Blackboard Collaborate through the class Blackboard shell. Faculty may assess your completion of these **assignments (including case studies)** and knowledge through quizzes embedded in the videos (i.e. Panopto) or through the use of an iClicker quiz **throughout the class. Active learning, in class exercises** using iClicker, and cases will be administered throughout the course. **These Class assignments, group activities, and quizzes will contribute to a total of 8.93% of your total course score.** Course coordinators retain the option to drop one or two of the student’s lowest-scoring activities at the end of the semester and/or issue **bonus points** for activities and participation, at their discretion. Bonus points could also be awarded by instructors as the bonus questions in each exams or class quizzes.

Exams:

There will be a total of six exams including the final exam. The exams will consist of true/false, matching, multiple choice, and multiple answer (e.g. select all that apply) questions. All exams will be administered via ExamSoft®, unless noted otherwise.

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 lesson(s).

If a student has an excused absence, they should immediately notify the course coordinator(s) and instructor(s).

The student should also immediately contact Director of Student Affairs (**Mrs. Carmen Ramos: crtorres2@utep.edu**) via online form - <https://www.utep.edu/pharmacy/current-students/student-absence-form.html>. To secure approval for an absence related to travel for professional meetings or for events that fall outside of the criteria outlined in the Student Handbook, please refer to the Handbook for more information regarding required documentation for submission to the Office of Student Affairs.

Attendance at lectures is not mandatory in that attendance will not be taken at each lecture. However, attendance and punctuality at lectures are strongly recommended and expected as a sign of professional behavior. If large numbers of students are absent, the course coordinator reserves the right to give unannounced quizzes. Missing class for work is NOT a valid reason for your absence.

The attendance of in-person lectures will be documented by sign-up forms providing in the class. The participation points will be awarded to the students with good attendance rates.

Attendance rate for 58 lectures	Participation (total 10 Points)
≥ 90%	10
90% > _ ≥ 80%	9
80% > _ ≥ 70%	8
70% > _ ≥ 60%	7
60% > _ ≥ 50%	6
50% > _ ≥ 40%	5
40% > _ ≥ 30%	4
30% > _ ≥ 20%	3
20% > _ ≥ 10%	2
5% > _ ≥ 10%	1

Classroom / Online Etiquette

Students are expected to be professionals and will be treated as such unless circumstances deem otherwise. Any behavior that impairs students' ability to learn will not be tolerated (e.g., side conversation, cell phone use, or electronic device used for activities unrelated to coursework). Laptops/Tablets/Phones may be used during class for taking notes. Using electronic devices for other activities than taking notes, which disrupts the class around you, would not be tolerated.

Expectations of Students During Course

It is the responsibility of the student to monitor his/her progress during the course. Students should keep good class attendance rates and follow the instructors' instructions to participate in the assignment and class activities. Students should seek advice and assistance from the course facilitator as soon as they encounter any difficulty in the course.

Unique Dress Policy for Course

This course has a hybrid component that permits for actual face-to-face interactions with faculty and other students enrolled in this class. We strongly encourage everyone who attends in-person activities wears a face mask at all times while such meetings are taking place, maintain social distance of a minimum of 6 or more feet, and practice proper hygiene practices. As you enter or exit campus, minimize the number of encounters with others to avoid infection by the SARS-CoV-2. Use preventive safety and health measures at all times until informed otherwise by campus officials.

EXAM-RELATED Technology and Guidance:

Exam Day Policy

Students must arrive on time for examinations. Students arriving after any student(s) has/have completed the exam and have left the room may not be allowed to sit for the exam and may receive a score of zero. No allowances will be made for an exam being missed, other than documented illness or emergency. The student must contact the course coordinator for confirmation prior to the exam. If permission is granted to delay the exam; it is the student's responsibility to contact the course coordinator to arrange for an alternative exam time. In this event, the nature of the make-up will be at the discretion of the course coordinator (oral, written, increased weighting on the final, etc.). An unexcused absence from an exam may result in a grade of "zero" for that exam.

Student Expectations Prior and During Examination

Due to the pandemic, all the individual exams were planned to be hold via ExamSoft®, unless noted otherwise.

Exams: Electronic exams need to be **downloaded at a minimum 2 hours prior to the examination.**

Students are responsible for having a computer for electronic exams. Computers/Tablets are available to check-out as a loan for exams from the ILC, and students should make early arrangements for securing computers. Students who show up without a computer to take an electronic exam will (1) be provided a paper exam, (2) may receive a grade deduction as stipulated in the course syllabus, and (3) will receive a professionalism referral to the SOP Progression Committee.

Availability of items during exam

By default, faculty will provide scratch paper for examinations, unless faculty determines scratch paper is not necessary in which case students will receive advance notice that scratch paper will not be provided. Only faculty 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 accordingly in the syllabus.

- **No backpacks, purses, hats, large coats, and/or other bulky clothing** permitted; these items need to be left outside the examination room or in an area in the exam room designated by the faculty/proctor.
- **No food or drink** allowed during an exam.

- **No electronic devices besides the only laptop or tablet (for example: watches, phones, ear phone, smart 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. **The usage of smart phone/watch/ear phone during the exam is not allowed, and the violation will lead the result in a grade of "zero" for that exam.** A specific model for calculators may be specified in the course syllabus or provided in advance of the examination to students.
 - Disruption of examination time due to an electronic device can result in a grade penalty as stipulated in the syllabus.
 - Bathroom break: **No bathroom breaks permitted during examinations unless a prior accommodation is made.** Faculty maintain discretion over the permissibility of bathroom breaks; students should expect that a proctor will accompany them to the restroom and will wait outside the restroom if permission for restroom use is granted. No additional time will be provided for examinations when restroom breaks occur.
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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** **MAY BE** allowed to make-up the missed assignment or assessment. The make-up exam will need to be evaluated case by case and approved by all the instructors that provide the make-up exam. Students should consult the UTEP School of **Student Handbook** for definitions and examples of excused absences.

- The course coordinator **MUST** be notified 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 **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.
- Any unexcused absence from an exam will result in a grade of zero for that exam.
- **There are no make-up sections for the Group Problem Solving or in class activities.**

The course coordinator will determine the time and date for a make-up exam, which will occur before the final exam period. 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 instructors, and may include any question type including, but not limited to, open-ended questions, an essay examination, or oral examinations.

Remediation Policy

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 Table of Contents for End of Course Remediation*).

Course Evaluation

Participation in Course Evaluations/Surveys is strongly encouraging.

Bonus points will be awarded to the whole class for the good participating rates in the course evaluations/surveys.

Participation rate of the whole class in course evaluation	Bonus Points
≥ 80%	2
80% > Rate ≥ 70%	1.5
70% > Rate ≥ 50%	1

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.

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. 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 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 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. Cell phone use disrupting the learning environment of fellow classmates and faculty is not allowed. The use of a cell phone or the ringing of the phone in class is considered unprofessional behavior. No cellphones can be used during an exam unless specifically as part of that assessment and approved by the faculty member/instructor.

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:** FireFox, Internet Explorer (Do NOT use IE7), and Chrome
- 2) **For a Mac:** Safari, Firefox, and 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 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 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 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

If technical problems are experienced with the course, students should contact the **UTEP Help Desk** 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 <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. 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/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/>.

Students must notify the course coordinator by Wednesday, October 23, 2019 if they will be using their accommodations. This is to allow sufficient time for the course coordinator to accommodate alternate exam-taking locations/times or any other accommodations approved by CASS.

**Course # PHAR 6477 (4 Credit Hours) / Track Integrated Systems Based Pharmacotherapy
(ISBP IIIB2)**

Integrated Systems Based Pharmacotherapy

Course Dates (March 8 – May 3, 2023)

In Person or Live via Online Platform

MTWTh: 1:00pm-2:50pm

IPPE: 0 hrs/IPE: 0 hrs

PHAR 6477: Course Calendar and Topic Outline

Day	Time	Lecture Number	Topics	Pharm Sci	PPCS	Synchronous (S) Video (V)	Assignment Activities	Required Reading
Module 1: Principles of Cancer Therapies (Pharmacology & Med Chem)								
Wed	March 8	Lecture 1	Course overview/Syllabus Review (0.5 h) Pathophysiology of Cancer (Molecular basis)	Qin				
Wed	March 8	Lecture 2	Pathophysiology of Cancer (Molecular basis)	Qin				
Thur	March 9	Lecture 3	Introduction to Clinical Oncology		Chavez	S (Zoom)		
Thur	March 9	Lecture 4	Introduction to Clinical Oncology		Chavez	S (Zoom)		
March 13 - March 17 Spring Break								
Mon	March 20	Lecture 5	Chemotherapy and Antineoplastic (Pharmacology) Alkylating Agents and Platinum Coordination Complexes	Qin				
Mon	March 20	Lecture 6	Chemotherapy and Antineoplastic (Pharmacology) Alkylating Agents and Platinum Coordination Complexes	Qin				
Tues	March 21	Lecture 7	Chemotherapy and Antineoplastic (Pharmacology) Antimetabolites	Qin				
Tues	March 21	Lecture 8	Chemotherapy and Antineoplastic (Pharmacology) Antimetabolites	Qin				
Wed	March 22	Lecture 9	Chemotherapy and Antineoplastic (Med Chem) Alkylating agents and Platinum Coordination Complexes	Weston				
Wed	March 22	Lecture 10	Chemotherapy and Antineoplastic (Med Chem) Antimetabolites	Weston				
End of material for Exam #1 (Lectures 1-10)								
Thur	March 23	Lecture 11	Chemotherapy and Antineoplastic (Pharmacology) Antibiotics	Qin				
Thur	March 23	Lecture 12	Chemotherapy and Antineoplastic (Pharmacology) Natural Products	Qin				

Day	Time	Lecture Number	Topics	Pharm Sci	PPCS	Synchronous (S) Video (V)	Assignment Activities	Required Reading
Mon	March 27	Lecture 13	Chemotherapy and Antineoplastic (Pharmacology) Natural Products	Qin				
Mon	March 27	Lecture 14	Chemotherapy and Antineoplastic (Pharmacology) Natural Products	Qin				
Tues	March 28	Lecture 15	Chemotherapy and Antineoplastic (Med Chem) Antibiotics & Natural Products	Weston				
Tues	March 28	Lecture 16	Chemotherapy and Antineoplastic (Pharmacology) Hormones and related agents	Qin				
Wed	March 29	Lecture 17	Chemotherapy and Antineoplastic (Pharmacology) Hormones and related agents	Qin				
Wed	March 29	Lecture 18	Chemotherapy and Antineoplastic (Pharmacology) Pathway targeted therapies	Qin				
Wed	March 29		Exam #1 (Classes 1 – 10) 3:00 pm – 4:50 pm (Room CABL 214)					
Thur	March 30	Lecture 19	Chemotherapy and Antineoplastic (Pharmacology) Pathway targeted therapies	Qin				
Thur	March 30	Lecture 20	Chemotherapy and Antineoplastic (Pharmacology) Immunotherapies	Qin				
Mon	April 3	Lecture 21	Chemotherapy and Antineoplastic (Med Chem) Hormones and related agents	Weston				
Mon	April 3	Lecture 22	Chemotherapy and Antineoplastic (Med Chem) Pathway targeted therapies	Weston				
End of Material for Exam #2 (Lectures 11-22)								
Module 2: Clinical Pharmacotherapies (Oncology)								
Tues	April 4	Lecture 23	Oncology Supportive Care and Oncologic Emergencies (Pharmacotherapy)		Chavez	S (Zoom)		
Tues	April 4	Lecture 24	Oncology Supportive Care and Oncologic Emergencies (Pharmacotherapy)		Chavez	S (Zoom)		
Wed	April 5	Lecture 25	Oncology Supportive Care and Oncologic Emergencies (Pharmacotherapy)		Chavez	S (Zoom)		
Wed	April 5	Lecture 26	Oncology Supportive Care and Oncologic Emergencies (Pharmacotherapy)		Chavez	S (Zoom)		

Day	Time	Lecture Number	Topics	Pharm Sci	PPCS	Synchronous (S) Video (V)	Assignment Activities	Required Reading
Thur	April 6	Lecture 27	Oncology Supportive Care and Oncologic Emergencies – End-of-Life and Palliative Care (Pharmacotherapy) <ul style="list-style-type: none"> Covered a little bit of Pharmacotherapy of Thrombocytopenia/HIT 		Chavez	S (Zoom)		
Thur	April 6	Lecture 28	Pharmacotherapy of Hematologic/Plasma Malignancies - Lymphoma		Chavez	S (Zoom)		
Mon	April 10	Lecture 29	Pharmacotherapy of Hematologic/Plasma Malignancies (Acute Leukemia) [Special Populations- Pediatrics]		Pinal			
Mon	April 10	Lecture 30	Pharmacotherapy of Hematologic/Plasma Malignancies (Acute Leukemia) [Special Populations- Pediatrics]		Pinal			
Tues	April 11	Lecture 31	Pharmacotherapy of Hematologic/Plasma Malignancies (Chronic Leukemia) [Special Populations- Pediatrics]		Chavez	S (Zoom)		
Tues	April 11	Lecture 32	Pharmacotherapy of Hematologic/Plasma Malignancies (Chronic Leukemia) [Special Populations- Pediatrics]		Chavez	S (Zoom)		
Wed	April 12	Lecture 33	Pharmacotherapy of Hematologic/Plasma Malignancies - Multiple myeloma	(Qin)				
End of Material of Exam #3 (Classes 23-33)								
Wed	April 12	Lecture 34	Pharmacotherapy of Cervical Cancer	(Qin)				
Wed	April 12		Exam #2 (Classes 11-22) 3:00 pm – 4:50 pm (Room CABL 214)					
Thur	April 13	Lecture 35	Pharmacotherapy of Breast Cancer		Chavez	S (Zoom)		
Thur	April 13	Lecture 36	Pharmacotherapy of Breast Cancer		Chavez	S (Zoom)		
Mon	April 17	Lecture 37	Pharmacotherapy of Ovarian Cancer		Chavez	S (Zoom)		
Mon	April 17	Lecture 38	Pharmacotherapy of Prostate Cancer		Chavez	S (Zoom)		
Tues	April 18	Lecture 39	Pharmacotherapy of Prostate Cancer		Chavez	S (Zoom)		
Tues	April 18	Lecture 40	Pharmacotherapy of Lung Cancer		Chavez	S (Zoom)		

Day	Time	Lecture Number	Topics	Pharm Sci	PPCS	Synchronous (S) Video (V)	Assignment Activities	Required Reading
Wed	April 19	Lecture 41	Pharmacotherapy of Lung Cancer		Chavez	S (Zoom)		
Wed	April 19	Lecture 42	Pharmacotherapy of Colorectal Cancers		Chavez	S (Zoom)		
Wed	April 19	Exam #3 (Classes 23–33) 3:00 pm – 4:50 pm (Room CABL 214)						
Thur	April 20	Lecture 43	Pharmacotherapy of Colorectal Cancers		Chavez	S (Zoom)		
Thur	April 20	Lecture 44	Pharmacotherapy of Renal Cell Carcinoma		Chavez	S (Zoom)		
End of material for Exam #4 (Classes 34-44)								
Mon	April 24	Lecture 45	Pharmacotherapy of Melanoma	(Qin)				
Mon	April 24	Lecture 46	Pharmacotherapy of Melanoma	(Qin)				
Tues	April 25	Lecture 47	Management of Sickle Cell Disease (Special Pops)		Pinal			
Tues	April 25	Lecture 48	Management of Sickle Cell Disease (Special Pops)		Pinal			
Wed	April 26	Lecture 49	T-cell therapy for cancers (immunosuppression drugs)	(Qin)				
Module 3. Solid Organ and Hematopoietic Stem Cell Transplantation								
Wed	April 26	Lecture 50	Solid Organ Transplant		Tasnif	V		
Wed	April 26	Exam #4 (Classes 34-44) 3:00 pm – 4:50 pm (Room CABL 214)						
Thur	April 27	Lecture 51	Solid Organ Transplant		Tasnif	V		
Thur	April 27	Lecture 52	Transplant Med Chem	Weston				
End of Material for Exam #5 (Classes 45-52)								
Mon	May 1	Lecture 53	Solid Organ Transplant		Tasnif	S (Zoom)		
Mon	May 1	Lecture 54	Solid Organ Transplant		Tasnif	S (Zoom)		
Tues	May 2	Lecture 55	Solid Organ Transplant		Tasnif	V		
Tues	May 2	Lecture 56	Solid Organ Transplant		Tasnif	V		
Wed	May 3	Lecture 57	Solid Organ Transplant		Tasnif	V		
Wed	May 3	Lecture 58	Hematopoietic stem cell transplantation (HSCT)		Tasnif	V		
Wed	May 3	Exam #5 (Classes 45-52) 3:00 pm – 4:50 pm (Room CABL 214)						

Day	Time	Lecture Number	Topics	Pharm Sci	PPCS	Synchronous (S) Video (V)	Assignment Activities	Required Reading
End of Material for the whole course								
Wed	May 10		Final Exam: Lectures (53-58) + Previous Material (1-52) Time: 3 pm – 6 pm					