



**School of Pharmacy**

**Course Syllabus**

**Fall – P2**

**Pharm 6470 – ISBP Track**

**Integrated Systems-Based Pharmacotherapy IIA1**

**Course Dates:** August 23 – October 12, 2021

**Scheduled Course Time:** Monday, Tuesday, Wednesday, Thursday 9 – 9:50 and 10 – 10:50 AM

**Delivery:** Synchronous/Live (some virtual content)

**Location:** Campbell Rm 212 (also Blackboard Collaborate)

**Course Coordinator**

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| <b>Natalie Gordon (Arndt), PharmD, Clinical Assistant Professor</b>  |  |
| Office Room Number: Campbell 503<br>Office Phone: (915) 747-8557<br>E-mail: <a href="mailto:nnarndt@utep.edu">nnarndt@utep.edu</a> | <b>OFFICE HOURS:</b> Tuesdays from 4 – 5 PM<br>Fridays from 11 – 12:30 PM (exam review)<br><b>and by appointment</b> |

**Course Faculty**

| <b>Faculty Lecturers/Facilitators</b>  |  |
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| Alaa Abdelhakiem, PharmD, Assistant Professor<br>Office Room Number: Campbell 515<br>Email: <a href="mailto:akabdelhakie@utep.edu">akabdelhakie@utep.edu</a><br>Preferred method of contact: email<br>Office hours: by appointment   | Boa Choi, PharmD, Clinical Instructor<br>Email: <a href="mailto:bchoi@utep.edu">bchoi@utep.edu</a><br>Preferred Method of Contact: email<br>Office hours: Virtual and by appointment only  |
| Ian Mendez, PhD, Assistant Professor<br>Office Room Number: Campbell 715<br>Email: <a href="mailto:iamendez2@utep.edu">iamendez2@utep.edu</a><br>Preferred method of contact: email or MS Teams<br>Office hours: by appointment  | Denise Pinal, PharmD, Clinical Assistant Professor<br>Office Room Number: Campbell 718<br>Email: <a href="mailto:denisepi@utep.edu">denisepi@utep.edu</a><br>Phone: (915) 747-5884<br>Preferred method of contact: email<br>Office hours: by appointment |
| Suman Sirimulla, PhD, Assistant Professor<br>Office Room Number: Campbell 716<br>Email: <a href="mailto:ssirimulla@utep.edu">ssirimulla@utep.edu</a><br>Phone: (915) 747-8530<br>Preferred method of contact: MS Teams or email (use <a href="mailto:ssirimulla@utep.edu">ssirimulla@utep.edu</a> NOT <a href="mailto:ssirimulla@miners.utep.edu">ssirimulla@miners.utep.edu</a> )<br>Office hours: by appointment |  |

**Note:** The course coordinator may adapt the syllabus/course calendar as appropriate to support student and course success.

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## Office Hours

*The coordinator will post office hours and accommodate all students as time permits. Students may request an appointment with the coordinator in person or via e-mail. Individual faculty lecturers should only be contacted regarding questions related to the material taught by them. All appointments should be made at least 2 business days in advance.*

Office hours may be held in-person on campus or virtually per the discretion of each faculty member. Instructors will post or announce the location and type of their office hours as necessary. Virtual Office Hours may be held through the online platform of each instructor's choice (i.e. Blackboard Collaborate, Microsoft Teams, etc). Office hours will be used to discuss any questions regarding course content, course logistic problems, or exam questions. The course coordinator will try to respond as soon as possible (generally within 24-48 hours) to meeting requests. When sending an email, please indicate the course number/name (e.g., PHAR 6472 ISBP IIB1) and the issue/topic in the subject line of the email. For individual faculty, please email directly for their online office hours.

Reviewing exams can be done during the course coordinator's office hours, or by appointment with the course coordinator or content instructors. If reviewed live/in-person, exam content can be discussed with detail. If reviewed via a virtual platform, exam content will be discussed generally rather than read or shown in order to protect exam integrity. To better focus future studying and review, discussion of exam content will focus on concepts related to missed questions rather than just right/wrong answers.

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## Questions Related to the Course and Grading/Exams

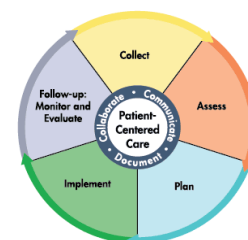
In general, questions related to the overall course should be directed to the coordinator. **Content/topic-specific questions** should be directed to the content instructor within **five (5) business days** of the material being presented.

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

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## 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 are closely tied to a practical application lab and an integrated skills lab. The topics in this course include: respiratory disorders, pain management, headache disorders, and gastrointestinal disorders.



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, implementing all parts of the Pharmacists' Patient Care Process

## Course Objectives mapped to National Pharmacy Education Outcomes

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

| Course Objectives   | CAPE Outcomes | PCOA                                    | NAPLEX  | Level of Assessment | Assessment Measures  |
|---|---------------|---|---|---------------------|--|
| <b>Objective 1:</b> Apply the basic anatomy and physiology concepts to understand the cellular and molecular organization of the system   | 1.1           | 1.1                                     |   | R, A                | Exams,<br>iClicker questions,<br>TBL cases,<br>Class participation |
| <b>Objective 2:</b> Describe the pathophysiology responsible for all disease states covered.  | 1.1           | 4.2.1                                   | 1.5   | I, R                |  |
| <b>Objective 3:</b> Integrate pathophysiology concepts into the therapeutic decision making process   | 1.1           | 4.2.1<br>4.1.5, 4.1.6<br>4.6.4, 4.7     | 3.2, 3.9,<br>3.10, 4.1,<br>4.4, 5.1   | R, A                |  |
| <b>Objective 4:</b> Determine the structure-activity relationships (SARs) to drug receptor/target interactions  | 1.1           | 2.1.1, 2.1.2,<br>2.1.4, 2.1.5           | 2.1, 3.10   | R                   |  |
| <b>Objective 5:</b> 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, 3.10   | R                   |  |
| <b>Objective 6:</b> Explain 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,<br>2.2.3, 2.2.4,<br>2.2.6 | 2.1, 2.3,<br>2.4, 3.6,<br>3.7, 3.8  | R, A                |  |
| <b>Objective 7:</b> Apply general principles of drug pharmacokinetics, the PK/PD relationship, and the concept of dose-response into the drug therapy plan.   | 1.1           | 2.5, 2.6<br>4.3                         | 3.10  | R, A                |  |
| <b>Objective 8:</b> Describe the etiology, incidence, and prognosis associated with disease states covered, including toxicological conditions.   | 1.1           | 2.2, 3.1.4                              | 1.5, 1.6  | R                   |  |
| <b>Objective 9:</b> Identify the major signs, symptoms, and clinical findings associated with each disease state, including toxicological conditions  | 1.1           | 2.2<br>4.6.3                            | 1.5, 1.6,<br>3.1, 3.2,<br>4.1   | I, R                |  |
| <b>Objective 10:</b> Identify usual medication doses, dosage forms, adverse drug reactions, and monitoring parameters of drug classes   | 1.1           | 2.2.3,<br>4.7                           | 2.1, 2.2,<br>2.3, 3.3,<br>3.4, 3.5,<br>3.7, 3.9                             | I, R, A             |  |
| <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<br>3.1    | 4.1.4<br>4.5, 4.6.4,<br>4.7             | 1.1, 1.4,<br>2.4, 3.1,<br>3.2, 3.3,<br>3.4, 3.5,<br>3.9, 3.11,<br>3.12, 6.4 | I, R, A             |  |

I = Introduce, R = Reinforce, A = Apply

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## Detailed Course Meetings Requirements

This course will be held in-person on Monday, Tuesday, Wednesday, and Thursday from 9 to 10:50 AM in Campbell 212. Occasionally, class may be held virtually and/or asynchronously per the determination of individual faculty members delivering each day's content. All lectures will be recorded. Please refer to the course Blackboard page for the most up-to-date course calendar and course expectations.

Exams will be held synchronously on Wednesday mornings from 7:30-8:50 AM on dates provided in the course calendar until otherwise stated. Exams will take place in **Campbell 211**. The final exam will occur synchronously on **October 18<sup>th</sup> from 1 – 3:45 PM**.

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 will be utilized as the primary learning management system.

**Accessing Course Content on Blackboard:** All lectures, handouts, and course material will be located in Blackboard. To access Blackboard, log into My UTEP.edu and click on the Blackboard link then access the online course for PHARM 6470. Students may access lectures/handouts as they are 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.

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## Methods of Instruction/Learning

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 activities such as:

1. Outside Preparation (e.g. readings, micro-lecture videos)
2. Lectures (in-person or virtual, synchronous and asynchronous)
3. Individual Assignments/Activities
4. Team Assignments/Activities
5. Case Discussions
6. Simulated Patient Interviews
7. Exams/Quizzes

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## Required Course Technology/Tools/Needs

### Required Textbooks:

- DiPiro JT. Pharmacotherapy: A Pathophysiologic Approach. 11th ed. ISBN 978-1-260-11681-6. Available in AccessPharmacy.
- Brunton LL. Goodman & Gilman's The Pharmacologic Basis of Therapeutics. 13th ed. ISBN 978-0071624428. Available in AccessPharmacy.
- Hammer GD. Pathophysiology of Disease: An Introduction to Clinical Medicine. 8th ed. ISBN 978-1-260-02650-4. Available in AccessPharmacy.
- Krinsky DL. Handbook of Nonprescription Drugs: An Interactive Approach to Self-Care. 19th ed. ISBN 978-1582122656. Available in PharmacyLibrary (APhA).

### Recommended Textbooks:

- Golan DE. Principles of Pharmacology: The Pathophysiologic Basis of Therapeutics. 4th ed. ISBN 978-1451191004.
- Katzung BG. Basic and Clinical Pharmacology. 14th ed. ISBN 978-1259641152. Available in AccessPharmacy.
- Roche V, et al. Foye's Principles of Medicinal Chemistry, 8<sup>th</sup> ed. ISBN 978-1496385024. \*Available in the bookstore or through Amazon.com

\*Note: this list is not exhaustive. Course faculty may require or recommend additional resources. These will be posted on the Blackboard course page as needed.

### Laptop Computer

- Students are expected to have computer access for class each day and 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 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, camera, audio with classmates/faculty for online course learning situations

### 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 orientation/first week of courses to ensure functionality.

- ExamSoft® Exam Monitor
- Blackboard® Respondus Lockdown
- Blackboard® Collaborate: Chrome Browser
- Microsoft® Teams
- Zoom®
- Audio (speaker & microphone) and video (camera) MUST be checked to be functional for classes and online exams
- \*iClicker account and iClicker Student App
  - If you have not already, go to <https://student.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 6472 ISBP IIB1 to your course list. More information can be found at: [https://www.utep.edu/technologysupport/Files/docs/iClicker-Reef\\_Student-Signup-Instructions.pdf](https://www.utep.edu/technologysupport/Files/docs/iClicker-Reef_Student-Signup-Instructions.pdf)

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## **Conduct Expectations**

### 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).

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. The course

coordinator and other instructors reserve the right to give unannounced quizzes. HOWEVER, individually instructors may require attendance for their lectures or activities. It is the student's responsibility to take note of these requirements and assure they are able to attend any required sessions. If attendance is required, this will be indicated on Blackboard. **Missing class for work is NOT a valid reason for your absence.**

If a student has an excused absence, they should immediately notify the course coordinator(s) and instructor(s) for each course day to be missed. **Please also immediately submit the Office of Student Affairs absence form and any documentation required to support excusing the absence.** Please follow all necessary Handbook procedures for approving an absence to be excused. Refer to the Handbook for more information regarding required documentation for submission to the Office of Student Affairs.

If this process is not followed, absences will be unexcused, and course faculty have no obligation to accommodate unexcused absences. Additionally, absences will be considered unexcused until officially excused after approval from the Office of Student Affairs.

### **Classroom Behavior**

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 taking notes or completing course activities. Using laptops for other activities than these causes a disruption to the class around you, and so is considered a lack of professionalism.

ONLINE: Your instructors and classmates want to generate a safe in-person and 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>.

Students are expected to conduct themselves at all times in a manner becoming to a pharmacy professional. This includes both "live" and virtual forms of communication (class sessions, video conferencing, assignment submissions, emails, etc). Aggressive, demeaning, or disrespectful communication to faculty or other students will not be tolerated.

Please refer to the Student Handbook for further details regarding professionalism expectations and repercussions of unprofessional conduct, which may include but are not limited to review by the Office of Student Affairs, the Progressions Committee, School of Pharmacy administrators, and even the Dean of Students.

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## **COVID-19 Precautions**

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\*\*When the course meets on campus during the semester, all CURRENT public health precautions/measures should be taken. For up-to-date UTEP policies, please see: <https://www.utep.edu/resuming-campus-operations/?home> \*\*

Everyone attending in-person activities is highly encouraged to wear a face mask while inside the Campbell building, maintain social distance of a minimum of 6 or more feet, and practice proper hygiene practices. Masks are not required.

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. If you have tested positive for COVID-19, you are encouraged to report your results to [covidaction@utep.edu](mailto: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.

## Evaluation and Grading Policy

Course point distribution will be as follows: (4 points per contact hour for first 5 exams; 1-2 points per hour for final)

| Type of Assessment                     | Total Points                           | % Course Grade |
|--|--|----------------|
| Assignments, Activities, Participation | 30                                     | 9.375%         |
| Exam 1                                 | 38                                     | 11.875%        |
| Exam 2                                 | 48                                     | 15%            |
| Exam 3                                 | 36                                     | 11.25%         |
| Exam 4                                 | 52                                     | 16.25%         |
| Exam 5                                 | 36                                     | 11.25%         |
| Final Exam                             | 80<br>(12 new content + 72 cumulative) | 25%            |
| <b>Total Points</b>                    | <b>320</b>                             | <b>100%</b>    |

### 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.

Grades are earned throughout the course, not given at the end. As such, grade will be determined on the basis of completed coursework. Final grades will be rounded per typical rounding conventions ( $\geq 0.5$  will be rounded up to the next whole percentage point).

For instance, a 79.6% rounds up to an 80%, equating to a letter grade of a B. However, a 79.2% rounds down to a 79%, equating to a letter grade of a C.

Assignments & Activities: Faculty may assign pre-class, in-class, or post-class assignments as they see fit relating to their course content. All requirements will be posted on the class Blackboard shell. Faculty may assess your completion of these activities and knowledge through various means (iClicker, Blackboard Respondus, assignments uploaded to Blackboard, etc). Active learning activities, iClicker questions, and cases may be administered throughout the course, and may require attendance and active participation to receive credit.

These and any other class participation activities will contribute a total of 9.375 % towards the total course grade.

Late Assignments: Assignments turned in after the time and date they are due will incur an automatic 15% deduction. This deduction will increase to 25% if the assignment is more than 1 week late.

### Exams:

There will be a total of 5 exams and a comprehensive final exam. The exams will consist of question types including true/false, matching, “hot spot”, fill in the blank, multiple choice, multiple answer (e.g. select all that apply), and short answer questions. All exams will be administered via Examsoft®, unless otherwise noted.

**REGRADE REQUEST:** Regrade requests for assignments or exams should be made within five (5) **business days** of the posting of the grades. Requests must be made in writing with evidence/rationale to support the requested appeal. Requests will not be entertained after this period (unless excused absence due to extenuating circumstances or per course coordinator discretion).

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## Exam-Related Policies and Guidance:

Please see the UTEP School of Pharmacy Student Handbook as well as the SOP Exam Guidance document available on Blackboard for more information regarding the procedure followed for all exams.

### 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, as per the Excused Absence policies. The student must contact the course coordinator for confirmation prior to the missed 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, etc.). An unexcused absence from an exam may result in a grade of "zero" for that exam.

### Student Expectations Prior and During Examination

- *Seating:* Randomized assigned seating will be utilized for each examination.
- *Room:* Students must arrive to room area **15 minutes ahead of examination**. Students are not permitted to be in the examination room prior to assigned seating. 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.
- *Exams:* Electronic exams need to be downloaded at a minimum 2 hours prior to the examination.
- *Questions/Issues:* Questions related to content on an exam will NOT be answered during any exam.

Students are responsible for having a computer for electronic exams. Computers are available to checkout 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, and (3) will receive a professionalism referral to the SOP Progression Committee.

### Availability of items during exam

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.

- 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 (for example: 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. Calculators are provided in the electronic exam platform if needed.
- 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 are 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.



### **Assessment Requirements:**

This course requires the use of ExamSoft®. Students are responsible for ensuring they have access to the online assessment system. Assessments will be required to be downloaded using an internet connection prior to the exam date and time. 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 also expected to maintain a functioning camera and microphone with their computer, in the case that ExamSoft's® ExamMonitor feature is utilized for remote exam testing. Students will be required to follow any exam monitoring procedures as determined by the School of Pharmacy.

If students cannot access your online account, please contact **Adrian Enriquez** ([aealonso@utep.edu](mailto: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.

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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** will be allowed to make-up the missed assignment or assessment. Students should consult the UTEP School of Pharmacy **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.

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 may include any question type including, but not limited to, open-ended questions, an essay examination, or oral examinations.

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## **Remediation Policy**

Remediation occurs 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*).

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## **Course Evaluations**

During this course, students will be provided with an opportunity to evaluate this course and the instructors. The Associate Dean for Assessment, Accreditation, and Strategic Planning will send an email reminder toward the end of this course to alert students to the availability of the course evaluation. UTEP uses an online course evaluation system.

Course Evaluations can be taken at [my.utep.edu](http://my.utep.edu) by clicking on the CLASSES TAB on the left. Click on the Course Name, or CRN, to complete the evaluation for the course. Every student's participation is an integral part of this course and the accreditation process, and feedback is vital to improving education at the School of Pharmacy. It is each student's professional responsibility to provide such feedback.

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## General Course Policies

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](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/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 vibrate/silent. Cell phone use for the purpose of texting, email or social media is not permitted. This use 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.

### 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

Check for updates on supported browsers:

[https://help.blackboard.com/Collaborate/Ultra/Participant/Get\\_Started/Browser\\_Support#supported-browsers\\_OTP-0](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 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](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](https://www.utep.edu/technologysupport/ServiceCatalog/BB_Students.html).

For help with **ExamSoft**: 866.429.8889 or 954.429.8889.

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](https://www.utep.edu/technologysupport/ServiceCatalog/BB_Students.html)

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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

### 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/index.html>) and may be dismissed from class 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

- Emergence Health Crisis Line: 915-779-1800
- National Suicide Prevention Hotline: 1-800-273-8255 / [suicidepreventionlifeline.org](https://suicidepreventionlifeline.org)
- **Veterans Crisis Line: 1-800-273-8255 / [www.veteranscrisisline.net](http://www.veteranscrisisline.net)**
- NAMI (National Alliance on Mental Illness) of El Paso: 915-778-5726 / <https://namiep.org>

***Further resources are available to students on the “Current Students” tab of the UTEP SOP website.***

### **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/>]

### PHAR 6470: Course Calendar

#### Integrated Systems-Based Pharmacotherapy IIA1

**Course Dates:** August 23 – October 12, 2021

**Scheduled Course Time:** Monday, Tuesday, Wednesday, Thursday 9 – 9:50 and 10 – 10:50 AM

**Delivery:** Synchronous/Live (some virtual content)

**Location:** Campbell Rm 212 (also Blackboard Collaborate)

| Exam   | Week        | Date  | Time  | Class Number                            | Topics   | Preparation  | Instructor |  |
|--|-------------|---|---|---|--|--|------------|--|
| Respiratory Module                                     | Week 1      | Mon 8/23  | 9-9:50 AM   | Class 1                                 | Course Overview and Syllabus Review                                    | Syllabus   | Gordon     |  |
|  |             |   | 10-10:50 AM   | Class 2                                 | Respiratory system and Asthma/COPD/Allergic Rhinitis [Pathophysiology] | Goodman & Gillman (G&G) Ch 40<br>DiPiro Ch 13, 43, 44; Hammer Ch 9 | Mendez     |  |
|  |             | Tues 8/24   | 9-9:50 AM   | Class 3                                 | Respiratory [Pharmacology]   | G&G Ch 40  | Mendez     |  |
|  |             |   | 10-10:50 AM   | Class 4                                 |  |  |            |  |
|  |             | Wed 8/25  | 9-9:50 AM   | Class 5                                 | Respiratory [Med Chem]   | Foye's Ch 28   | Sirimulla  |  |
|  |             |   | 10-10:50 AM   | Class 6                                 |  |  |            |  |
|  | Thu 8/26    | 9-9:50 AM   | Class 7   | Inhaled Medication Pharmaceutics Review | DiPiro Ch 43   | Gordon   |            |  |
|  |             | 10-10:50 AM   | Class 8   |   |  |  |            |  |
|  | Week 2      | Mon 8/30  | 9-9:50 AM   | Class 9                                 | Asthma [Pharmacotherapy]   | DiPiro Ch 43 + Asthma Guidelines on BB                             | Gordon     |  |
|  |             |   | 10-10:50 AM   | Class 10                                |  |  |            |  |
| <b>End of Exam 1 Content (Classes 1-10, 38 points)</b> |             |   |   |   |  |  |            |  |
| Tue 8/31   |             | 9-9:50 AM   | Class 11  | Allergic Rhinitis                       | DiPiro Ch 13   | Gordon   |            |  |
|  |             | 10-10:50 AM   | Class 12  | Review Cases                            |  | Gordon   |            |  |
| <b>Exam 1: 9/1 7:30-8:50 AM</b>                        |             |   |   |   |  |  |            |  |
| Wed 9/1  | 9-9:50 AM   | Class 13  | Chronic Obstructive Pulmonary Disease [Pharmacotherapy] | DiPiro Ch 44 + GOLD Pocket Guide on BB  | Gordon   |  |            |  |
|  | 10-10:50 AM | Class 14  |   |   |  |  |            |  |
| Thu 9/2  | 9-9:50 AM   | Class 15  | Smoking Cessation                                       | DiPiro Ch 83 (nicotine section only)    | Gordon/APPE students   |  |            |  |
|  | 10-10:50 AM | Class 16  |   |   |  |  |            |  |
| Pain Module  | Week 3      | Mon 9/6   | Labor Day – NO CLASS                                    |   |  |  |            |  |
|  |             | Tues 9/7  | 9-9:50 AM   | Class 17                                | Physiology and Pathophysiology of Pain                                 | DiPiro Ch 77 & 78<br>Hammer Ch 7                                   | Mendez     |  |
|  |             |   | 10-10:50 AM   | Class 18                                | Pain [Pharmacology]  | G&G Ch 20  | Mendez     |  |
|  |             | Wed 9/8   | 9-9:50 AM   | Class 19                                | Pain [Pharmacology]  | DiPiro Ch 77 & 78  | Mendez     |  |
|  |             |   | 10-10:50 AM   | Class 20                                |  |  |            |  |
|  | Thu 9/9     | 9-9:50 AM   | Class 21  | Pain [Med Chem]                         | Foye's Ch 14   | Sirimulla  |            |  |
|  |             | 10-10:50 AM   | Class 22  |   |  |  |            |  |
| Week 4   | Mon 9/13    | 9-9:50 AM   | Class 23  | Pain [Med Chem]                         | Foye's Ch 15   | Sirimulla  |            |  |
|  |             | <b>End of Exam 2 Content (Classes 11-23, 52 points)</b> |   |   |  |  |            |  |
|  |             | 10-10:50 AM   | Class 24  | Pain [Pharmacotherapy]                  | DiPiro Ch 77   | Gordon   |            |  |

\*\* 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 as deemed necessary\*\*

| Exam  | Week  | Date  | Time                              | Class Number   | Topics   | Preparation                      | Instructor                 |              |             |
|---|---|---|-----------------------------------|--|--|----------------------------------|----------------------------|--------------|-------------|
| Upper GI Module   | Week 4  | Tue 9/14  | 9-9:50 AM                         | Class 25   | Pain [Pharmacotherapy]   | DiPiro Ch 77                     | Gordon                     |              |             |
|   |   |   | 10-10:50 AM                       | Class 26   |  |                                  |                            |              |             |
|   | Week 5  | Wed 9/15  | <b>Exam 2: 9/15, 7:30-8:50 AM</b> |  |  |                                  |                            | DiPiro Ch 78 | Gordon      |
|   |   |   | 9-9:50 AM                         | Class 27   | Headache and Migraine Disorders  |                                  |                            |              |             |
|   | 10-10:50 AM   | Class 28  |                                   |  |  |                                  |                            |              |             |
|   | Week 5  | Thu 9/16  | 9-9:50 AM                         | Class 29   | Physiology of the Gastrointestinal System                                    | Hammer Ch 13                     | Mendez                     |              |             |
|   |   |   | 10-10:50 AM                       | Class 30   | Nausea and Vomiting [Pathophysiology]  | G&G Ch 50                        | Mendez                     |              |             |
|   | Week 5  | Mon 9/20  | 9-9:50 AM                         | Class 31   | Nausea and Vomiting [Pharmacology]   | G&G Ch 50                        | Mendez                     |              |             |
|   |   |   | 10-10:50 AM                       | Class 32   | Nausea and Vomiting [Pharmacotherapy]  | DiPiro Ch 52                     | Pinal                      |              |             |
|   | <b>End of Exam 3 Content (Classes 24-32, 36 points)</b> |   |                                   |  |  |                                  |                            |              |             |
| Week 5  | Tues 9/21   | 9-9:50 AM   | Class 33                          | Gastroesophageal Reflux Disease and Peptic Ulcer Disease [Pathophysiology] | G&G Ch 49  | Abdelhakiem                      |                            |              |             |
|   |   | 10-10:50 AM   | Class 34                          | GERD/PUD [Pharmacology]  | G&G Ch 49  | Abdelhakiem                      |                            |              |             |
| <b>Exam 3: 9/22, 7:30-8:50 AM</b>                       |   |   |                                   |  |  |                                  |                            |              |             |
| Week 5  | Wed 9/22  | 9-9:50 AM   | Class 35                          | GERD/PUD [Med Chem]  | Foye's Ch 26   | Sirimulla                        |                            |              |             |
|   |   | 10-10:50 AM   | Class 36                          | GERD/PUD [Pharmacotherapy]   | DiPiro Ch 49 & 50  | Pinal                            |                            |              |             |
| Week 5  | Thu 9/23  | 9-9:50 AM   | Class 37                          | GERD/PUD [Pharmacotherapy]   | DiPiro Ch 49 & 50  | Pinal                            |                            |              |             |
|   |   | 10-10:50 AM   | Class 38                          | Dehydration and Oral Replacement [Pharmacotherapy]                         | DiPiro Ch 159 & 160  | Pinal                            |                            |              |             |
| Week 6  | Mon 9/27  | 9-9:50 AM   | Class 39                          | Clinical Nutrition   | DiPiro Ch 158  | Abdelhakiem                      |                            |              |             |
|   |   | 10-10:50 AM   | Class 40                          | Nutritional Assessment Obesity [Pathophysiology]                           | DiPiro Ch 161  | Abdelhakiem                      |                            |              |             |
|   | Tue 9/28  | 9-9:50 AM   | Class 41                          | Obesity [Pharmacotherapy]  | DiPiro Ch 161  | Abdelhakiem                      |                            |              |             |
|   |   | 10-10:50 AM   | Class 42                          | Eating Disorders   | DiPiro Ch 81   | Abdelhakiem                      |                            |              |             |
|   | Wed 9/29  | 9-9:50 AM   | Class 43                          | Constipation and Diarrhea [Pathophysiology]                                | G&G Ch 50  | Abdelhakiem                      |                            |              |             |
|   |   | 10-10:50 AM   | Class 44                          | Constipation [Pharmacology]  | G&G Ch 50  | Abdelhakiem                      |                            |              |             |
| Week 6  | Thu 9/30  | 9-9:50 AM   | Class 45                          | Constipation [Pharmacotherapy]   | DiPiro Ch 53   | Abdelhakiem                      |                            |              |             |
|   |   | <b>End of Exam 4 Content (Classes 33-45, 52 points)</b> |                                   |  |  |                                  |                            |              |             |
| Diarrhea and IBD Module                                 | Week 6  | Mon 9/27  | 10-10:50 AM                       | Class 46   | Diarrhea [Pharmacology]  | G&G Ch 50                        | Abdelhakiem                |              |             |
|   |   |   | Week 7                            | Mon 10/4   | 9-9:50 AM  | Class 47                         | Diarrhea [Pharmacotherapy] | DiPiro Ch 53 | Abdelhakiem |
|   | 10-10:50 AM   | Class 48  |                                   |  | Anorectal Disorders  |                                  | Choi                       |              |             |
|   | Week 7  | Tue 10/5  | 9-9:50 AM                         | Class 49   | Inflammatory Bowel Diseases: Crohns and Ulcerative Colitis [Pathophysiology] | Hammer Ch 13 (IBD sections only) | Choi                       |              |             |
|   |   |   | 10-10:50 AM                       | Class 50   | IBD/CD/UC [Pharmacology]   | G&G Ch 51                        | Choi                       |              |             |
|   | <b>Exam 4: 10/6, 7:30-8:50 AM</b>                       |   |                                   |  |  |                                  |                            |              |             |
|   | Week 7  | Wed 10/6  | 9-9:50 AM                         | Class 51   | Constipation/Diarrhea and IBD/CD/UC [Med Chem]                               | Foye's Ch 26                     | Sirimulla                  |              |             |
|   |   |   | 10-10:50 AM                       | Class 52   | IBD [Pharmacotherapy]  | DiPiro Ch 51                     | Choi                       |              |             |
|   | Week 7  | Thu 10/7  | 9-9:50 AM                         | Class 53   | IBD [Pharmacotherapy]  | DiPiro Ch 51                     | Choi                       |              |             |
|   |   |   | 10-10:50 AM                       | Class 54   | Irritable Bowel Syndrome   | DiPiro Ch 53                     | Choi                       |              |             |
| <b>End of Exam 5 Content (Classes 46-54, 36 points)</b> |   |   |                                   |  |  |                                  |                            |              |             |
| Geriatric   | Week 8  | Mon 10/11   | 9-9:50 AM                         | Class 55   | Potentially Inappropriate Medications  |                                  | Loya                       |              |             |
|   |   |   | 10-10:50 AM                       | Class 56   | Fall Risk Increasing Drugs   |                                  | Loya                       |              |             |

\*\* 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 as deemed necessary\*\*

| Exam | Week  | Date         | Time                               | Class Number | Topics                                     | Preparation           | Instructor |
|------|---|--------------|------------------------------------|--------------|--|-----------------------|------------|
|      |   | Tue<br>10/12 | 9-9:50 AM                          | Class 57     | Geriatric Pharmacokinetics and Drug Dosing |                       | Loya       |
|      |   |              | 10-10:50 AM                        | Class 58     | Final Review Session                       | Come with questions!! | Gordon     |
|      |   | Wed<br>10/13 | <b>Exam 5: 10/13, 7:30-8:50 AM</b> |              |  |                       |            |
|      | <b>Final Exam: Monday October 18<sup>th</sup> from 1 – 3:45 PM (New content: Classes 55-57; Cumulative content: Classes 1-54)</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 as deemed necessary\*\*