



**School of Pharmacy**

**Course Syllabus**

Fall – P2

Pharm 6470 – ISBP Track

**Integrated Systems-Based Pharmacotherapy IIA1**

**Course Dates:** August 22 – October 11, 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 (virtual via Zoom)

**Course Coordinator**

**Natalie Gordon, PharmD, Clinical Assistant Professor**

Office Room Number: Campbell 503

**OFFICE HOURS:** XXX from XX-XX PM

Office Phone: (915) 747-8557

XXX from XX-XX PM (exam review)

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

**and by appointment**

**Course Faculty**

**Faculty Lecturers/Facilitators**

Alaa Abdelhakiem, PharmD, Assistant Professor

Office Room Number: Campbell 515

Email: [akabdelhakiem@utep.edu](mailto:akabdelhakiem@utep.edu)

Preferred method of contact: email

Office hours: virtual and by appointment

Emily Christenberry, PharmD, BCPS, BCGP, Clinical

Assistant Professor

Email: [ejchristenberry@utep.edu](mailto:ejchristenberry@utep.edu)

Preferred method of contact: email

Office hours: Virtual and by appointment only

Ian Mendez, PhD, Assistant Professor

Office Room Number: Campbell 715

Email: [iamendez2@utep.edu](mailto:iamendez2@utep.edu)

Preferred method of contact: email or MS Teams

Office hours: by appointment

Denise Pinal, PharmD, BCPPS, Clinical Assistant Professor

Office Room Number: Campbell 718

Email: [denisepi@utep.edu](mailto:denisepi@utep.edu)

Phone: (915) 747-5884

Preferred method of contact: email

Office hours: by appointment

Suman Sirimulla, PhD, Assistant Professor

Office Room Number: Campbell 716

Email: [ssirimulla@utep.edu](mailto:ssirimulla@utep.edu)

Phone: (915) 747-8530

Preferred method of contact: MS Teams or email (use

[ssirimulla@utep.edu](mailto:ssirimulla@utep.edu) NOT [ssirimulla@miners.utep.edu](mailto:ssirimulla@miners.utep.edu))

Office hours: by appointment

Sara Smith, PharmD, Clinical Assistant Professor

Office Room Number: Campbell 703

Email: [scrico@utep.edu](mailto:scrico@utep.edu)

Preferred method of contact: email or in person

Office Hours: by appointment

**Commented [GNN1]:** Update with ADAA info

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

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## Office Hours

*Students may request an appointment with the coordinator in person or via e-mail. Guest faculty will provide office hours during lecture days. 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. Zoom, 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 and the issue/topic in the subject line of the email.

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

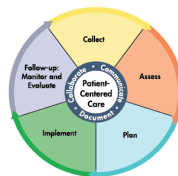
In general, questions related to the overall course should be directed to the coordinator. **Content/topic-specific questions** should be directed to the content instructor within **five (5) business days** of the material being presented.

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, providing foundation knowledge necessary to apply 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 2013	PCOA	NAPLEX 2021	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, iClicker questions, TBL cases, 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 4.1.5, 4.1.6 4.6.4, 4.7	3.2, 3.9, 3.10, 4.1, 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, 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, 2.2.3, 2.2.4, 2.2.6	2.1, 2.3, 2.4, 3.6, 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 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 4.6.3	1.5, 1.6, 3.1, 3.2, 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, 4.7	2.1, 2.2, 2.3, 3.3, 3.4, 3.5, 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 3.1	4.1.4 4.5, 4.6.4, 4.7	1.1, 1.4, 2.4, 3.1, 3.2, 3.3, 3.4, 3.5, 3.9, 3.11, 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, however, recordings may or may not be available to students per each instructor's individual determination for their content.

Exams will be held synchronously on **Friday afternoons from 1 - 2:20 PM** on dates provided in the course calendar unless otherwise stated. Exams will take place in Campbell 211. The final exam will occur synchronously on **October XX<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. Except in cases of a UTEP network being "down" or "offline" students are ultimately responsible to ensure that their computer is connected to the internet, that you have all necessary access, 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; the availability of lecture recordings after class will not be guaranteed and is up to instructor preference)
3. Individual Assignments/Activities
4. Team Assignments/Activities
5. Case Discussions
6. Exams/Quizzes

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## Required Course Technology/Tools/Needs

Required Textbooks (Available virtually via the AccessPharmacy Library or APhA Pharmacy Library):

- 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 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 have access to a non-programmable calculator for all assessment activities (electronic device calculators are acceptable). Some exams (e.g., ExamSoft®) may require use the software calculator only.

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

- Exemplify, ExamSoft® Exam Monitor
- Blackboard® Respondus Lockdown
- Microsoft® Teams
- Zoom® (via UTEP access with email)
- **Audio (speaker & microphone) and video (camera) MUST 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 6470 ISBP IIA1 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** and 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. Additionally, **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 is seeking an excused absence, they should **immediately**:

1. Notify the course coordinator(s) and instructor(s) for any affected course day(s)
2. Contact Director of Student Affairs (Mrs. Carmen Ramos: [crtorres2@utep.edu](mailto:crtorres2@utep.edu)) via online form - <https://www.utep.edu/pharmacy/current-students/student-absence-form.html> (include supporting documentation to justify absence excusal)

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.

If a student has an excused absence (e.g. personal illness, family emergency, professional travel), they must notify the course coordinator(s) and instructor(s) teaching that day **at least 2 hours prior** to the start of class/exam.

### **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.

Your instructors and classmates want to generate a safe in-person and online learning environment. **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, OSCCR, the SOP Progressions Committee, School of Pharmacy administrators, and even the Dean of Students.

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## **COVID-19 Precautions**

**\*\*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 (See excused absence procedures outlined above). 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:

Type of Assessment	Total Points	% Course Grade
Assignments, Activities, Participation	30	9.375%
Exam 1	38	11.875%
Exam 2	36	11.25%
Exam 3	32	10%
Exam 4	36	11.25%
Exam 5	32	10%
Exam 6	36	11.25%
Final Exam	80 (12 new content + 68 cumulative)	25%
<b>Total Points</b>	<b>320</b>	<b>100%</b>

Exam points follow this structure: 4 points per contact hour for first 6 exams; 1-2 points per hour for final

### 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 their progress during the course and see that he/she is maintaining the required competency level. Students should seek advice and assistance from the course facilitators as soon as they 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/Exam Soft quizzes, 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**. Completing/submitting in-class assignments, such as iClicker questions, while not being present in class will be viewed as academic dishonesty and reported to the Office of Student Conduct and Conflict Resolution (OSCCR).

Assignment Submissions: Assignment submissions should be in a native file format as requested by the instructor (e.g., .docx, .ppt, .pdf, .mp4). Ensuring the accessibility of embedded attachments or hyperlinks is the responsibility of the student. It is also the student's responsibility to make sure files are uploaded appropriately and to reach out to the proper channel (e.g., Blackboard Support, UTEP Help Desk) if any technological issues are encountered.

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, and 50% if more than 2 weeks late.

### Exams:

There will be a total of **6** 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 Examplify by Examssoft®, unless otherwise noted. Students will have 80 minutes to complete exams (excluding the final).

**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 refer to 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 in-person or virtual 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 **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 the testing area **at least 15 minutes ahead of the 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 arrives, the student arriving late 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.
- **Breaks/leaving the exam room:** Leaving the exam room is not permitted during examinations unless a prior accommodation is made. Faculty maintain discretion over the permissibility of any situation requiring a student to leave the room (bathroom breaks, phone calls, etc.). If permission to leave the room is granted, students should expect that a proctor will escort them out of the exam and may remain nearby. No additional time will be provided for examinations when any type of break occurs.

Students are responsible for having a computer for electronic exams. Computers are available to checkout as a loan for exams from the ILC. 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 and/or OSCCR. Students should be aware that using other devices such as tablets may result in technical errors with test taking. Students are responsible for troubleshooting, preventing, and managing these issues, NOT the course faculty.

### Availability of items during exam

Faculty will provide scratch paper for examinations, if needed. 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 (e.g.: 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 any of the above can result in confiscation of the device, a grade penalty/receiving a score of zero for the exam, and/or a report being submitted to OSCCR.

#### **Assessment Requirements:**

This course requires the use of ExamSoft®/Examplify. Students are responsible for ensuring they have access to the assessment system. Assessments will be required to be downloaded using an internet connection **a minimum of 2 hours prior to the examination** 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 to allow for recorded proctoring as necessary. Students will be required to follow any exam monitoring procedures as determined by the School of Pharmacy.

If a student cannot access their required software/accounts, 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**.

Failure to download an examination at least two hours prior to the exam time will result in a **10% grade penalty on that exam**. Repeated instances (> 1 time) of not downloading electronic exams will result in a referral for professionalism to the **SOP Progression Committee and additional 10% grade penalty deduction** (total of 20%).

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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 and faculty instructor **MUST** be notified **at least 2 hours** prior to the start of class or exam for the student to be excused.
- Students must follow the procedures in the Student Handbook to submit documentation using the Student Absence Form in order to procure an excused absence for missed exams.
- Any excused absence from an exam for **health reasons** must be documented with a note from an appropriate health professional.
- In the case of **religious holidays or professional conference attendance**, the student **MUST** notify the course coordinator at least **ten (10) business days prior** to the assignment/quiz/exam. Students should not assume that they can miss an assignment/quiz/exam for vacation or other personal conflicts.
- Any unexcused absence from an assignment/quiz/exam will result in a grade of **ZERO**.

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. UTEP uses an online course evaluation system. Course Evaluations will open toward the end of the course and can be accessed 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 (OSCCR). Please refer to the Student Handbook for SOP guidance on academic integrity.

Academic dishonesty includes, but is not limited to, cheating (including utilization of unapproved resources or other student's work to complete your own), 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, breaching any course policy outlined in this syllabus, and any act designed to give unfair advantage to a student or the attempt to commit such acts.

Proven violations may result in sanctions including, but not limited to disciplinary probation, a failing grade on the work in question, a failing grade in the course, suspension, or dismissal. (For more information, see:

<https://www.utep.edu/student-affairs/osccr/student-conduct/academic-integrity.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/>

**Students must notify the course coordinator by the completion of the first week of the semester 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.**

**PHAR 6470: Course Calendar**  
**Integrated Systems-Based Pharmacotherapy IIA1**

**Course Dates:** August 22 – October 11, 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 (virtual via Zoom)

Exam	Week	Date	Time	Class Number	Topics	Preparation	Instructor
Respiratory Module	Week 1	Mon 8/22	9-9:50 AM	Class 1	Course Overview and Syllabus Review	Syllabus	Gordon
					Respiratory system and Asthma/COPD/Allergic Rhinitis [Pathophysiology]	Goodman & Gillman (G&G) Ch 40 DiPiro Ch 13, 43, 44; Hammer Ch 9	Mendez
			10-10:50 AM	Class 2	Respiratory system and Asthma/COPD/Allergic Rhinitis [Pathophysiology]	G&G Ch 40 DiPiro Ch 13, 43, 44	Mendez
		Tues 8/23	9-9:50 AM	Class 3	Respiratory [Pharmacology]	G&G Ch 40	Mendez
			10-10:50 AM	Class 4			
		Wed 8/24	9-9:50 AM	Class 5	Respiratory [Med Chem]	Foye's Ch 28	TBD
			10-10:50 AM	Class 6			
	Thu 8/25	9-9:50 AM	Class 7	Inhaled Medication Pharmaceutics Review	DiPiro Ch 43	Gordon	
		10-10:50 AM	Class 8				
	Mon 8/29	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)</b>							
Pain Module	Week 2	Tue 8/30	9-9:50 AM	Class 11	Allergic Rhinitis	DiPiro Ch 13	Smith
			10-10:50 AM	Class 12	Review Cases		Gordon
		Wed 8/31	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 9/1	9-9:50 AM	Class 15	Smoking Cessation	DiPiro Ch 83 (nicotine section only)	Smith/APPE students
	10-10:50 AM		Class 16				
	Fri 9/2	1 – 2:20 PM	<b>Exam 1 (38 pts)</b>				
Week 3	Mon 9/5	Labor Day – NO CLASS					
	Tues 9/6	9-9:50 AM	Class 17	Physiology and Pathophysiology of Pain	DiPiro Ch 77 & 78 Hammer Ch 7	Mendez	
		10-10:50 AM	Class 18	Pain [Pharmacology]	G&G Ch 20	Mendez	
	Wed 9/7	9-9:50 AM	Class 19	Pain [Pharmacology]	DiPiro Ch 77 & 78	Mendez	
		10-10:50 AM	Class 20				
<b>End of Exam 2 Content (Classes 11-20)</b>							

Exam	Week	Date	Time	Class Number	Topics	Preparation	Instructor	
Upper GI Module		Thu 9/8	9-9:50 AM	Class 21	Pain [Med Chem]	Foye's Ch 14	TBD	
			10-10:50 AM	Class 22				
		Fri 9/9	1 – 2:20 PM	Exam 2 (36 pts)				
	Week 4	Mon 9/12	9-9:50 AM	Class 23	Pain [Med Chem]	Foye's Ch 15	TBD	
			10-10:50 AM	Class 24	Pain [Pharmacotherapy]	DiPiro Ch 77	Gordon	
		Tue 9/13	9-9:50 AM	Class 25	Pain [Pharmacotherapy]	DiPiro Ch 77	Gordon	
			10-10:50 AM	Class 26				
		Wed 9/14	9-9:50 AM	Class 27	Headache and Migraine Disorders	DiPiro Ch 78	Gordon	
			10-10:50 AM	Class 28				
		End of Exam 3 Content (Classes 21-28)						
Thu 9/15	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		
Fri 9/16	1 – 2:20 PM	Exam 3 (32 pts)						
Nutrition Assessment and Constipation Module	Week 5	Mon 9/19	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	
	Tues 9/20	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	
	Wed 9/21	9-9:50 AM	Class 35	GERD/PUD [Med Chem]		Foye's Ch 26	TBD	
		10-10:50 AM	Class 36	GERD/PUD [Pharmacotherapy]		DiPiro Ch 49 & 50	Pinal	
	Thu 9/22	9-9:50 AM	Class 37	GERD/PUD [Pharmacotherapy]		DiPiro Ch 49 & 50	Pinal	
		End of Exam 4 Content (Classes 29-37)						
	10-10:50 AM	Class 38	Dehydration and Oral Replacement [Pharmacotherapy]		DiPiro Ch 159 & 160	Pinal		
	Fri 9/23	1 – 2:20 PM	Exam 4 (36 pts)					
Week 6	Mon 9/26	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 9/27	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 9/28	9-9:50 AM	Class 43	Constipation and Diarrhea [Pathophysiology]		G&G Ch 50	Abdelhakiem	

Exam	Week	Date	Time	Class Number	Topics	Preparation	Instructor	
		9/28	10-10:50 AM	Class 44	Constipation [Pharmacology]	G&G Ch 50	Abdelhakiem	
		Thu 9/29	9-9:50 AM	Class 45	Constipation [Pharmacotherapy]	DiPiro Ch 53	Abdelhakiem	
			<b>End of Exam 5 Content (Classes 38-45)</b>					
			10-10:50 AM	Class 46	Diarrhea [Pharmacology]	G&G Ch 50	Abdelhakiem	
Fri 9/30	1 – 2:20 PM	<b>Exam 5 (32 pts)</b>						
Diarrhea and IBD Module	Week 7	Mon 10/3	9-9:50 AM	Class 47	Diarrhea [Pharmacotherapy]	DiPiro Ch 53	Abdelhakiem	
			10-10:50 AM	Class 48	Anorectal Disorders		Abdelhakiem	
		Tue 10/4	9-9:50 AM	Class 49	Inflammatory Bowel Diseases: Crohns and Ulcerative Colitis [Pathophysiology]	Hammer Ch 13 (IBD sections only)	Abdelhakiem	
			10-10:50 AM	Class 50	IBD/CD/UC [Pharmacology]	G&G Ch 51	Abdelhakiem	
		Wed 10/5	9-9:50 AM	Class 51	Constipation/Diarrhea and IBD/CD/UC [Med Chem]	Foye's Ch 26	TBD	
			10-10:50 AM	Class 52	IBD [Pharmacotherapy]	DiPiro Ch 51	Abdelhakiem	
		Thu 10/6	9-9:50 AM	Class 53	IBD [Pharmacotherapy]	DiPiro Ch 51	Abdelhakiem	
			10-10:50 AM	Class 54	Irritable Bowel Syndrome	DiPiro Ch 53	Abdelhakiem	
		<b>End of Exam 6 Content (Classes 46-54)</b>						
		Fri 10/7	1 – 2:20 PM	<b>Exam 6 (36 pts)</b>				
Geriatrics Module	Week 8	Mon 10/10	9-9:50 AM	Class 55	Potentially Inappropriate Medications		Christenberry	
			10-10:50 AM	Class 56	Fall Risk Increasing Drugs		Christenberry	
		Tue 10/11	9-9:50 AM	Class 57	Geriatric Pharmacokinetics and Drug Dosing		Christenberry	
			10-10:50 AM	Class 58	Final Review Session	Come with questions!!	Gordon	
		<b>Final Exam: Friday October 14<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\*\*