



School of Pharmacy

Course Syllabus

Spring – P2

Pharm 6472 – ISBP Track

Integrated Systems-Based Pharmacotherapy IIB1

Course Dates: January 17 – March 7, 2023

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

Delivery: Synchronous/Live (virtual content via Zoom)

Location: Campbell Rm 212

Course Coordinator

Alaa K. Abdelhakiem, PharmD, Clinical Assistant Professor

Office Room Number: Campbell 717

Phone: (417) 225-0325

E-mail: akabdelhakiem@utep.edu

OFFICE HOURS: 1-3 PM Tuesday (via MS Teams)
and by appointment

Course Faculty

Faculty Lecturers/Facilitators

Natalie Gordon, PharmD, BCACP, Clinical Assistant Professor

Office Room Number: Campbell 503

Email: nnarndt@utep.edu

Preferred method of contact: email

Office hours: by appointment

Marc Cox, MSPH, PhD, Chair of Pharmaceutical Sciences

Office Room Number: 711

Email: mbcox@utep.edu

Preferred method of contact: email

Office hours: by appointment

Ian Mendez, PhD, Assistant Professor

Office Room Number: Campbell 715

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Preferred method of contact: email or MS Teams

Office hours: by appointment

Margie Padilla, PharmD, CDE, BCACP, Clinical Professor

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Rafael Sanchez, PharmD, BCACP, AAHIVP, Clinical Assistant Professor

Office Room Number: Campbell 501

Email: rsanchez48@utep.edu

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Yupeng Li, PhD, Assistant Professor

Office Room Number: Campbell 716

Email: yli10@utep.edu

Preferred method of contact: email

Office hours: by appointment

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

Office Hours

Students may request an appointment with the coordinator 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.

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.

Course Description

The Integrated Systems-Based Pharmacotherapy (ISBP) course series begins in the P2 year (primary care focus) and continues through the P3 year (advanced pharmacotherapy/acute care/specialty focus), providing the essentials for integrating foundational knowledge with practice and care. Faculty from Pharmaceutical Sciences and Clinical Sciences will work together to design a comprehensive, integrated approach to pharmacotherapy, which includes a practical application lab and an integrated lab. The topics in this course include: Endocrine, Men's and Women's Health, Dermatology, Ophthalmology, Hematology, and Musculoskeletal and Connective Tissue 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	PCOA	NAPLEX	Level of Assessment	Assessment Measures
Objective 1: 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
Objective 2: Describe the pathophysiology responsible for all disease states covered.	1.1	4.2.1	1.5	I, R	
Objective 3: 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, 5.1	R, A	
Objective 4: 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	
Objective 5: 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	
Objective 6: 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	
Objective 7: 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	
Objective 8: 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	
Objective 9: 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	
Objective 10: 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	
Objective 11: Formulate a comprehensive drug therapy plan that incorporates non-pharmacologic and pharmacologic approaches including first-line therapy, alternative therapies, monitoring parameters and diagnostic interpretations, desired therapeutic goals/outcomes, and considerations for special populations (e.g. pediatrics, geriatrics, multiple disease states).	2.1 3.1	4.1.4 4.5, 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

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. If class is held synchronously with the instructor presenting material virtually, students are still expected to be present in Campbell 212 during class, regardless of the physical or virtual location of the presenting instructor. All lectures will be recorded, however, recordings may or may not be available to students per each instructor's individual determination for their content.

All exams will take place in Campbell Rm 212 except for the midterm exam, which will be in 211. Module exams will be held **during class time on various Mondays from 9 - 10:50 AM** on dates provided in the course calendar unless otherwise stated. The Comprehensive Midterm Exam will be held on **Friday, February 9th from 2-3:30PM**. The Comprehensive Final Exam will occur on **Thursday, March 8th from 9-10:50 AM**.

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.

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 or asynchronous)
3. Individual Assignments/Activities
4. Team Assignments/Activities
5. Case Discussions
6. Exams/Quizzes

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.
- Katzung BG. Basic and Clinical Pharmacology. 14th ed. ISBN 978-1259641152. Available in AccessPharmacy.
- Krinsky DL. Handbook of Nonprescription Drugs: An Interactive Approach to Self-Care. 19th ed. ISBN 978-1582122656. Available in Pharmacy Library.

- O'Connell MB. Women's Health Across a Lifespan. 2nd ed. Available in AccessPharmacy.

Recommended Textbooks:

- Golan DE. Principles of Pharmacology: The Pathophysiologic Basis of Therapeutics. 4th ed. ISBN 978-1451191004.
- Roche V, et al. Foye's Principles of Medicinal Chemistry, 8th 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 online 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 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.

- ExamSoft® Exam Monitor
- Blackboard® Respondus Lockdown
- 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

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, **individual 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) 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.

Breaches in professionalism will be reported to the Office of Student Affairs and will remain permanently in each student’s record. Such reports will affect a student’s professional standing with the School of Pharmacy and can impact a student’s ability to pursue leadership positions, scholarships, recommendations, etc.

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 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, 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:

Type of Assessment	Total Points	% Course Grade
Assignments, Quizzes, Activities	45	13.8%
Exam 1	48	14.7%
Exam 2	32	9.8%
Midterm Exam	42	12.3%
Exam 3	48	14.7%
Exam 4	48	14.7%
Final Exam	70 (20 new content + 50 cumulative)	19.7%
Total Points	325	100%

Exam points follow the following structure: 4 points per contact hour for 4 Module Exams; 2 points per hour for the Midterm Exam and Final Exam

****In order to pass this course, students should meet the below expectations. Failure to meet one or both expectations will result in failure of the course:**

- **At least a 70% on the combined midterm and final exams (e.g. 60% midterm + 80% final exam = 70% comprehensive score)**
- **At least a 70% as their total final course grade (225.9 out of 325 points)**

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 encounter 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 (≥ 0.5 will be rounded up to the next whole percentage point):**

- For instance, a 79.5% rounds up to an 80%, equating to a letter grade of a B. However, a score of 79.4% rounds down to 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 in the class Blackboard course. Faculty may assess student 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) as well as the Office of Student Affairs.

Assignment Submissions: Assignment submissions should be in a native file format able to be opened (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 4 exams, 1 comprehensive midterm exam, and 1 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 Exemplify by Examsoft®, 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).

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) may 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) 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%).

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.

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*).

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** 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.

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>)

UTEP and SOP Policy for Special Accommodations (ADA)

If you have or suspect a disability and need classroom accommodations, you should contact the Center for Accommodations and Support Services (CASS) at 747-5148. You can also e-mail the office at cass@utep.edu or go by their office in Union Building East (Room 106). For additional information, visit the CASS website at

<http://sa.utep.edu/cass/>

Students must notify the course coordinator by 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 6472: Course Calendar

Integrated Systems-Based Pharmacotherapy IIB1

Course Dates: January 16 – March 7, 2024

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

Delivery: Synchronous/Live (virtual via Zoom)

Location: Campbell Rm 212

Exam	Week	Date	Time	Class Number	Topics	Preparation	Instructor/Delivery	
Endocrine Module 1: Diabetes	Week 1	Mon 1/15	Martin Luther King Jr. Day: NO CLASS					
		Tues 1/16	9-9:50 AM	Class 1	Course overview/Syllabus Review Anatomy and Physiology of Endocrine System	G&G Ch 42	Abdelhakiem Gordon	
			10-10:50 AM	Class 2	Diabetes [Med Chem]	N/A	Li	
					[REVIEW MATERIAL POSTED] Diabetes Pathophysiology Asynchronous virtual review		G&G Ch 47 DiPiro Ch 91	Gordon (Asynchronous)
		Wed 1/17	9-9:50 AM	Class 3	Diabetes [Intro, Epidemiology]	DiPiro Ch 91	Padilla	
			10-10:50 AM	Class 4	Diabetes [Non-insulin Agents Pharmacology]	G&G Ch 47; DiPiro Ch 91	Gordon	
		Thu 1/18	9-9:50 AM	Class 5	Diabetes [Non-insulin Agents Pharmacology]	G&G Ch 47; DiPiro Ch 91	Gordon	
			10-10:50 AM	Class 6	Diabetes [Insulin Pharmacology]	G&G Ch 47; DiPiro Ch 91	Gordon	
		Week 2	Mon 1/22	9-9:50 AM	Class 7	Diabetes [Non-insulin Agents Pharmacotherapy] *Homework Assignment DUE at 11:59 PM	DiPiro Ch 91	Padilla
				10-10:50 AM	Class 8			Padilla
	Tues 1/23		9-9:50 AM	Class 9	IRAT/TRAT/TBL Cases over Non-Insulin Agents	Homework Assignment	Padilla/ Gordon	
			10-10:50 AM	Class 10	Diabetes [Insulin Pharmacotherapy]	DiPiro Ch 91	Padilla	
	Wed 1/24		9-9:50 AM	Class 11	IRAT/TRAT/TBL Cases over Insulin and Diabetes Management	N/A	Padilla/Gordon	
			10-10:50 AM	Class 12	IRAT/TRAT/TBL Cases over Insulin and Diabetes Management	N/A	Padilla/Gordon	
	Thurs 1/25		9-9:50 AM	Class 13	Diabetes: Standards of Care and other topics	DiPiro Ch 91	Padilla	
	END OF EXAM 1 CONTENT (Class 1-13)							

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Men's and Women's Health Module 2	Week 3		10-10:50 AM	Class 14	Endocrine Glands & Thyroid Pathophysiology	G&G Ch 42	Mendez		
		Mon 1/29	9-9:50 AM	Class 15	Exam 1 (48 points)				
			10-10:50 AM	Class 16					
		Tue 1/30	9-9:50 AM	Class 17	Thyroid Disorders [Med Chem]	N/A	Li		
			10-10:50 AM	Class 18	Thyroid Disorders [Pharmacology & Pharmacotherapy]	DiPiro Ch 92, 93, 94	Padilla/Salazar		
					[REVIEW MATERIAL POSTED] Anatomy and Physiology of Men's and Women's Reproductive System (will be testable material—review on own)		Hammer Ch 22, 23	Gordon (Asynchronous)	
		Wed 1/31	9-9:50 AM	Class 19	Benign Prostate Hyperplasia/Erectile Dysfunction/Urinary Incontinence [Pharmacology]	G&G Ch 45 DiPiro Ch 99	Sanchez		
			10-10:50 AM	Class 20	Benign Prostate Hyperplasia/Erectile Dysfunction/Urinary Incontinence [Med Chem]	TBD	Li		
		Thu 2/1	9-9:50 AM	Class 21	Benign Prostatic Hyperplasia (BPH) Pharmacotherapy	G&G Ch 45 DiPiro Ch 100	Sanchez		
			10-10:50 AM	Class 22	Erectile Disorder (ED) Pharmacotherapy	N/A	Sanchez		
	END OF EXAM 2 CONTENT (Class 14, 17-22)								
	Week 4	Mon 2/5	9-9:50 AM	Class 23	Exam 2 (32 Points)				
			10-10:50 AM	Class 24					
		Tue 2/6	9-9:50 AM	Class 25	Urinary Incontinence [Pharmacotherapy]	DiPiro Ch 101	Sanchez		
			10-10:50 AM	Class 26	Menstrual Cycle Overview [Physiology]	Katzung 40	Gordon		
		Wed 2/7	9-9:50 AM	Class 27	Menstrual Disorders [Pathophysiology and Pharmacotherapy]	DiPiro Ch 96, 97; O'Connell Ch 8, 9, 10, 11	Gordon		
			10-10:50 AM	Class 28	Contraception [Pharmacology]	N/A	Cox		
		Thu 2/8	9-9:50 AM	Class 29	Contraception [Pharmacotherapy]	O'Connell Ch 14	Gordon		
			10-10:50 AM	Class 30		O'Connell Ch 14	Gordon		
		Fri 2/9	2-3:30 PM	COMPREHENSIVE MIDTERM EXAM (Class 1-22) → CABL RM 211					
		Week 5	Mon 2/12	9-9:50 AM	Class 31	Emergency Contraception [Pharmacology and Pharmacotherapy]	O'Connell Ch 14	Gordon	
	10-10:50 AM			Class 32	Maternal Health (Infertility, Lactation, Post-Partum Care) [Pharmacotherapy]	DiPiro Ch 95	Gordon		

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		Tues 2/13	9-9:50 AM	Class 33	Menopause [Pathophysiology, Pharmacology, Pharmacotherapy]	DiPiro Ch 98; G&G Ch 44; O'Connel Ch 12	Gordon		
			10-10:50 AM	Class 34	Female Sexual Dysfunction and Male Hypogonadism	TBD	Gordon		
		Wed 2/14	9-9:50 AM	Class 35	Osteoporosis [Pathophysiology and Pharmacology]	G&G Ch 48	Sanchez		
			10-10:50 AM	Class 36	Osteoporosis [Med Chem]	N/A	Li		
		Thu 2/15	9-9:50 AM	Class 37	Osteoporosis [Pharmacotherapy]	DiPiro Ch 108	Sanchez		
			END OF EXAM 3 CONTENT (Class 25-37)						
			10-10:50 AM	Class 38	Glaucoma, Macular Degeneration, & Conjunctivitis [Pathophysiology and Pharmacotherapy]	DiPiro Ch 110, 111, 112	Abdelhakiem		
					[REVIEW MATERIAL POSTED] Drug-induced ophthalmic disorders		DiPiro Ch 110, 111, 112	Abdelhakiem	
		Mon 2/19	9-9:50 AM	Class 39	Exam 3 (48 Points)				
			10-10:50 AM	Class 40					
Dermatologic & Ocular Module	Week 6	Tue 2/20	9-9:50 AM	Class 41	Alopecia, Psoriasis/Eczema, Acne [Pathophysiology and Pharmacotherapy]	G&G Ch 70	Abdelhakiem		
			10-10:50 AM	Class 42		DiPiro Ch 113, 114, 116	Abdelhakiem		
		Wed 2/21	9-9:50 AM	Class 43	Dermatologic Disorders (Xerosis, Minor Burns, Dermatitis, Wounds) [Pathophysiology and Pharmacotherapy]	G&G Ch 70	Abdelhakiem		
			10-10:50 AM	Class 44		DiPiro Ch 115, 117	Abdelhakiem		
		Thu 2/22	9-9:50 AM	Class 45	Anemia [Pathophysiology, Pharmacology, Pharmacotherapy]	G&G Ch 41	Abdelhakiem		
			10-10:50 AM	Class 46		DiPiro Ch 118	Abdelhakiem		
Musculoskeletal and Connective Tissue Module	Week 7	Mon 2/26	9-9:50 AM	Class 47	Rheumatoid Arthritis, Psoriatic Arthritis, and Osteoarthritis [Med Chem]	N/A	Li		
			10-10:50 AM	Class 48	Rheumatoid Arthritis [All]	DiPiro Ch 106, 107	Abdelhakiem		
		Tues 2/27	9-9:50 AM	Class 49	Psoriatic Arthritis [All]	DiPiro Ch 106, 107	Abdelhakiem		
			10-10:50 AM	Class 50	Osteoarthritis [All]	DiPiro Ch 106, 107	Abdelhakiem		
END OF EXAM 4 CONTENT (Class 38, 41-50)									

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		Wed 2/28	9-9:50 AM	Class 51	Systemic Lupus Erythematosus [All]	DiPiro Ch 103	Abdelhakiem
			10-10:50 AM	Class 52		DiPiro Ch 103	Abdelhakiem
		Thu 2/29	9-9:50 AM	Class 53	Systemic Lupus Erythematosus [Med Chem] (0.5 h) Gout/Hyperuricemia [Med Chem] (0.5 h)	N/A	Li
			10-10:50 AM	Class 54	Gout/Hyperuricemia [Pathophysiology/Pharmacology]	G&G Ch 38	Abdelhakiem
Week 8	Mon 3/4	9-9:50 AM	Class 55	Exam 4 (48 Points)			
		10-10:50 AM	Class 56				
	Tue 3/5	9-9:50 AM	Class 57	Gout/Hyperuricemia [Pharmacotherapy]	DiPiro Ch 109	Abdelhakiem	
		10-10:50 AM	Class 58	SLE & Gout Review & Exam 4 Final Review	N/A	Abdelhakiem	
	Wed 3/6	No Class					
Final Exam: Thursday 3/7 9-10:50AM							
New Material: Class 51-54, 57-58 (5 hrs; 20 pts), Cumulative Material: Class 25-50							

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