



**School of Pharmacy
Required Course Syllabus**

Fall – P2

Course # Pharm 6470 – Track: ISBP

Integrated Systems-Based Pharmacotherapy IIA1

Course Dates: August 24 – October 13, 2020

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

Location: Online (Virtual)

IPPE: 0 hours / IPE: 0 hours

Course Coordinator

| | |
|---|--|
| Natalie Arndt, PharmD, Clinical Assistant Professor | |
| Office Room Number: Campbell 503 | VIRTUAL OFFICE HOURS: Mon 12 – 1; Thurs 3:30 – 5 PM |
| Office Phone: (915) 747-8557 | and by appointment |
| E-mail: nnarndt@utep.edu | |

Course Co-Coordinator

| | |
|---|---|
| Mary Chavez, PharmD, FAACP, Professor, Associate Dean for Academic Affairs | |
| Office Room Number: 110K | VIRTUAL OFFICE HOURS: by appointment |
| Office Phone: (915) 747-8242 | |
| E-mail: mlchavez11@utep.edu | |

Course Faculty

| Faculty Lecturers/Facilitators | |
|--|--|
| Jordan Bell, PharmD Office Room Number: Campbell 713 Email: jebell2@utep.edu Phone: (915) 747-8183 Preferred method of contact: email Office hours: by appointment | Ian Mendez, PhD, Assistant Professor Email: jamendez2@utep.edu Preferred method of contact: email or MS Teams Office hours: by appointment |
| Denise Pinal, PharmD, Clinical Assistant Professor Office Room Number: Campbell 718 Email: 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 Phone: (915) 747-8530 Preferred method of contact: MS Teams or email (use ssirimulla@utep.edu NOT ssirimulla@miners.utep.edu) Office hours: by appointment |

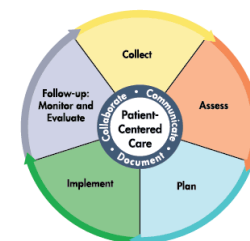
Office Hours Statement:

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 guest faculty should provide office hours during lecture days. All appointments should be made at least 2 business days in advance.

Virtual Office Hours will 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 problematic exam questions and any course logistic problems. The course coordinator will try to respond as soon as possible (generally within 24-48 hours) to meeting requests. When sending an email, please send through the Blackboard® course email or indicate the course number/name (e.g., PHAR 6470 ISBP IIA1) and the issue/topic in the subject line of the email. For individual faculty, please email directly for their online office hours.

Course Description

Integrated Systems-Based Pharmacotherapy course series begins in the P2 year with a primary care focus and continues through the P3 year with advanced pharmacotherapy an acute care/specialty focus. Faculty from Pharmaceutical Sciences and Clinical Sciences will work together to design a comprehensive, integrated approach to pharmacotherapy. Issues related to the provision of pharmacotherapy in special populations (e.g., pediatrics, geriatrics) will be integrated into this course as appropriate. The topics in this course are respiratory disorders, headache disorders and pain management, gastrointestinal disorders, and hepatitis.



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.

<https://www.pharmacist.com/sites/default/files/files/PatientCareProcess.pdf>

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

Course Learning Objectives (mapped to national outcomes):

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

| Course Objectives | CAPE Outcomes | PCOA | NAPLEX | Types of Activities to meet Learning Objectives | Assessment Measures | Level of Assessment (I) Introduce (R) Reinforce (A) Apply |
|--|---------------|--------------------|----------|--|-----------------------------------|--|
| 1. Apply the basic anatomy and physiology concepts to understand the cellular and molecular organization of the system. | 1.1 | 1.1 | 1.1 | <i>Readings, lectures, discussions, and class activities</i> | <i>Quizzes, Exams Assignments</i> | R, A |
| 2. Describe the pathophysiology responsible for all disease states covered. | 1.1 | 4.2 | 1.1 | <i>Readings, lectures, discussions, and class activities</i> | <i>Quizzes, Exams Assignments</i> | R, A |
| 3. Integrate pathophysiology concepts into the therapeutic decision making process. | 1.1 | 4.1.5, 4.2, 4.7 | 1.2 | <i>Readings, lectures, discussions, and class activities</i> | <i>Quizzes, Exams Assignments</i> | R, A |
| 4. Determine the structure-activity relationships (SARs) to drug receptor/target interactions | 1.1 | 2.1 | 1.2 | <i>Readings, lectures, discussions, and class activities</i> | <i>Quizzes, Exams Assignments</i> | R |
| 5. Identify SARs with regard to characteristic pharmacophores and drug-receptor interactions for specific drugs and drug classes | 1.1 | 2.1 | 1.2 | <i>Readings, lectures, discussions, and class activities</i> | <i>Quizzes, Exams Assignments</i> | R |
| 6. Explain the mechanism of pharmacological action (including toxicological and adverse effects) of specific drugs and drug classes in affecting/treating a targeted disease state. | 1.1 | 2.2 | 1.2 | <i>Readings, lectures, discussions, and class activities</i> | <i>Quizzes, Exams Assignments</i> | R, A |
| 7. Describe the etiology, incidence, and prognosis associated with disease states covered. | 1.1 | 2.2 | 1.2 | <i>Readings, lectures, discussions, and class activities</i> | <i>Quizzes, Exams Assignments</i> | R |
| 8. Identify the major signs, symptoms, and clinical findings associated with each disease state. | 1.1 | 2.2 | 1.2 | <i>Readings, lectures, discussions, and class activities</i> | <i>Quizzes, Exams Assignments</i> | R |
| 9. Discuss general principles of drug pharmacokinetics, the PK/PD relationship, and the concept of dose-response. | 1.1 | 2.5, 2.6, 4.3, 4.4 | 1.2 | <i>Readings, lectures, discussions, and class activities</i> | <i>Quizzes, Exams Assignments</i> | R, A |
| 10. Define general principles of pharmacogenomics. | 1.1 | 2.6 | 1.2.11 | <i>Readings, lectures, discussions, and class activities</i> | <i>Quizzes, Exams Assignments</i> | R |
| 11. Identify usual medication doses, dosage forms, side effects, adverse drug reactions, and monitoring parameters. | 1.1 | 2.2.3 4.7 | 1.2, 1.3 | <i>Readings, lectures, discussions, and class activities</i> | <i>Quizzes, Exams Assignments</i> | R, A |
| 12. Formulate a comprehensive drug therapy plan that incorporates non-pharmacologic and pharmacologic approaches including first-line therapy, alternative therapies, monitoring parameters, desired therapeutic goals/outcomes, and considerations for special populations (e.g. pediatrics, geriatrics). | 2.1, 3.1 | 4.5 4.6.4 4.7 | 1.2 | <i>Readings, lectures, discussions, and class activities</i> | <i>Quizzes, Exams Assignments</i> | R, A |

Additional / Detailed Course Meetings & Location

This course will be held online on Monday, Tuesday, Wednesday, and Thursday from 9 to 10:50 AM.

Classes will either be held synchronously 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, expectations, and explanations of how course content will be delivered and which electronic platforms will be utilized (Blackboard, MS Teams, Zoom, etc).

Exams that are synchronous will be held at the posted lecture time as outlined in the course calendar. Exams will be held on dates provided in the course calendar until otherwise stated. The final exam will occur during finals week.

In a major disruption (e.g., H1N1 epidemic, subzero weather), be prepared to maintain course progress via exclusively virtual means (e.g., Internet, our Blackboard course shell, etc.) and check your email (especially your UTEP miners account) regularly.

Online Platform:

This block, 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. Log into My UTEP.edu and click on the Blackboard link to access the online course for PHARM 6470. The course is individualized and 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.

Methods of Instruction/Learning

This semester, the course will be taught primarily online via Blackboard Learning Management System. 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
2. Lectures (synchronous and asynchronous)
3. Individual Assignments/Activities
4. Team Assignments/Activities
5. Case Discussions
6. Simulated Patient Interviews
7. Exams/Quizzes

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.
- Krinsky DL. Handbook of Nonprescription Drugs: An Interactive Approach to Self-Care. 19th ed. ISBN 978-1582122656. Available in PharmacyLibrary.
- Hammer GD. Pathophysiology of Disease: An Introduction to Clinical Medicine. 8th ed. ISBN 978-1-260-02650-4. Available in AccessPharmacy.
- Hammer GD. Pathophysiology of Disease: An Introduction to Clinical Medicine. 7th ed. ISBN 978-0071806008. Available in AccessPharmacy.
- Roche V, et al. Foye's Principles of Medicinal Chemistry, 8th ed. ISBN 978-1496385024. *Available in the bookstore or through Amazon.com

Recommended Textbooks:

- Katzung BG. Basic and Clinical Pharmacology. 14th ed. ISBN 978-1259641152. Available in AccessPharmacy.
- Golan DE. Principles of Pharmacology: The Pathophysiologic Basis of Therapeutics. 4th ed. ISBN 978-1451191004.

*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 with classmates/faculty for course learning

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® Collaborate: Chrome Browser
- Microsoft® Teams
- Blackboard® Respondus Lockdown
- Zoom®
- **Audio (speaker & microphone) and video (camera) MUST be checked to be functional for classes and online exams**

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. Additionally, individually instructors may require attendance for their lectures or activities. 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 that course day. To secure approval for an absence related to travel for professional meetings or for events that fall outside of the criteria outlined in the Student Handbook, please refer to the Handbook for more information regarding required documentation for submission to the Office of Student Affairs.

Classroom / Online Etiquette

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/chats, cell phone use, electronic device use for activities not related to coursework). Laptops may be used during class for taking notes. Using laptops for other activities than taking notes causes a disruption to the class around you.

ONLINE: Your instructors and classmates want to generate a safe online learning environment. Please use appropriate online classroom behavior by reading the UTEP Netiquette Guide for Online Courses available at <https://www.utep.edu/extendeduniversity/cid/Files/docs/faculty-resources/student-orientation/NetiquetteGuideforOnlineCourses>.

Expectations of Students During Course

It is the responsibility of the **student** to monitor their progress during the course. Students should seek advice and assistance from the course facilitator as soon as they encounter any difficulty in the course.

COVID-19

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

Evaluation and Grading Policy

Course point distribution will be as follows:

| Type of Assessment | Total Points | % Course Grade |
|-----------------------|---------------------------------------|----------------|
| Exam 1 | 30 | 10% |
| Exam 2 | 36 | 12% |
| Exam 3 | 40 | 13.3% |
| Exam 4 | 32 | 10.7% |
| Exam 5 | 36 | 12% |
| Exam 6 | 32 | 10.7% |
| Participation Points | 10 | 3.3% |
| Cumulative Final Exam | 84 (24 new content, 60 cumulative) | 28% |
| Total | 300 | 100% |

Assignment of grades:

- A = 90 – 100%**
- B = 80 – 89%**
- C = 70 – 79%**
- D = 60-69%**
- F = < 60%**

All Assessments will be administered via ExamSoft®, unless noted otherwise.

It is the responsibility of the **student** to monitor their progress during the course and see that they are maintaining the required competency level. Students should seek advice and assistance from the course facilitator as soon as they encounter any difficulty in the course.

Exams: Each exam's percent of the total course grade is outlined above. See the calendar below for a description of the content that will be covered by each exam. The final exam is a comprehensive final exam that covers all materials from all modules presented in this course and classes since Exam 5.

Quizzes and class participation: There may be randomly given, in-class quizzes and participation points. Faculty also have the option to given an outside participation assignment. Class participation and quizzes will be combined and worth a total of 5% of the class grade.

This course is connected to the following areas: Practical Skills Lab, Integrated Skills lab, and Drug Information.

Questions Related to the Course and Grading/Exams

MATERIAL: 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.

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

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 faculty coordinator).

EXAM-RELATED Technology and Guidance:

Please refer to the UTEP School of Pharmacy Student Handbook for guidance for exams (online/remote as well as on campus) <https://www.utep.edu/pharmacy/current-students/current-students.html>

Online Assessment Requirements:

This course requires the use of ExamSoft® and Blackboard Respondus Lockdown®. Students are responsible for creating their online login within the first week of class. It is the student's responsibility to maintain access to a reliable internet connection (with the rare exception of when UTEP's systems are down).

If students cannot access your online account, please contact **Adrian Enriquez** (aealonso@utep.edu), to resolve this issue **within five (5) business days of the first day of class**. Students are responsible for ensuring they have access to the online assessment system. Mr. Enriquez is **NOT available** for questions or laptop failures/requests **after business hours or on weekends**.

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.

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 Evaluation

During this course, you will be provided with an opportunity to evaluate this course and your instructors. The Associate Dean for Assessment, Accreditation, and Strategic Planning will send an email reminder toward the end of this course for you to complete the course evaluation. UTEP uses an online course evaluation system. Course Evaluations can be taken at my.utep.edu by clicking on the CLASSES TAB on the left. The Course Evaluation module will appear and your classes will be listed. Click on the Course Name, or CRN, to complete the evaluation for the course. Your participation is an integral part of this course and the accreditation process, and your feedback is vital to improving education at the School of Pharmacy.

General Statement about Course Policy

The syllabus is subject to change to meet course needs, especially if there are unexpected disruptions or changes in class size, resources, etc. The most updated syllabus can be found on the course Blackboard shell. It is the student's responsibility to review the syllabus periodically for updates.

UTEP and SOP Policy for Academic Integrity

Any student who commits an act of academic dishonesty is subject to discipline (which could include failure of course or dismissal from School of Pharmacy). Please refer to the Student Handbook for SOP guidance on academic integrity (*see Student Handbook - Table of Contents for Curriculum and Classroom Policies: Academic Integrity*).

Academic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, and any act designed to give unfair advantage to a student or the attempt to commit such acts.

Proven violations of the detailed regulations, as printed in the Handbook of Operating Procedures (HOP), and available in the Office of the Dean of Students and on the homepage of the Dean of Students at www.utep.edu/dos, may result in sanctions ranging from disciplinary probation, to a failing grade on the work in question, to a failing grade in the course, to suspension or dismissal, among others. (For more information, see: <https://www.utep.edu/student-affairs/osccr/student-conduct/academic-integrity.html>)

Professionalism and Professional Conduct

While enrolled at the University, a student neither loses the rights nor escapes the responsibilities of citizenship. Thus, UTEP and the SOP value professionalism and expect all students to not only acquire but also maintain the highest standards of professional attitudes and behaviors in their interactions with their fellow classmates, staff, faculty, colleagues and their patients, as described in **the UTEP School of Pharmacy Student Handbook** and as per UTEP's student conduct policies (see <https://www.utep.edu/student-affairs/osccr/student-conduct/index.html/> for further information). Any student who engages in conduct that is prohibited by the Board of Regents' Rules and Regulations, University or SOP rules or by federal, state, or local law is subject to discipline whether such conduct takes place on or off campus or whether civil or criminal penalties are also imposed for such conduct. Please refer to the Student Handbook for specific expectations regarding professional conduct in the SOP (*see Student Handbook: Table of Contents for Academic Progression: Good Standing: Professional*).

Cell Phones

Students should carry cell phones, but keep the phone on the vibrate mode in the event students need to be notified by the emergency alert system. Disruptive 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:** Mozilla FireFox and Google Chrome (NOT Internet Explorer)
- 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

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).

ExamSoft Technical Support: 866.429.8889 or 954.429.8889

If technical problems are experienced with the course, students should contact the **UTEP Help Desk** during: Monday– Friday: 8AM – 5PM. If calling within UTEP: 915.747.4357. If calling from outside UTEP: 915.747.5257. For more information, please visit <http://helpdesk.utep.edu>. For help with **Blackboard**: https://www.utep.edu/technologysupport/ServiceCatalog/BB_Students.html

Students can also visit an on-campus lab such as the ATLAS lab located within the Undergraduate Learning Center (UGLC building) for additional technical assistance. In addition to the various campus computer labs (ATLAS in UGLC or LACIT in Liberal Arts for example), Technology Support Services provides workstations for student use. To learn more, please visit: https://www.utep.edu/technologysupport/ServiceCatalog/BB_Students.html

UTEP and SOP Policy for Special Accommodations (ADA)

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

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/>) 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
- Mental Health Crisis Line: **915-779-1800**
- National Suicide Prevention Hotline: 1-800-273-8255 / suicidepreventionlifeline.org
- **Veterans Crisis Line: 1-800-273-8255** / www.veteranscrisisline.net
- NAMI (National Alliance on Mental Illness) of El Paso: 915-534-5478 / <https://nami.org>

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 and Topic Outline
Fall P2 Integrated Systems Based Pharmacotherapy IIA1 (ISBP)
Course Dates: Block 1 August 24, 2020 - October 13, 2020
MTWTh: 9-10:50 AM

| WEEK | Date | Time | Topics | Required Reading* or Activity | Faculty |
|------|---|-------------------------|---|--|-----------|
| 1 | Aug 24 (Mon) | Class 1 9-9:50 am | Course Overview/Syllabus (0.5 hr) | Course Syllabus & student handbook | Arndt |
| | | | Pathophysiology of pulmonary system and Asthma/COPD/Allergic Rhinitis (0.5 hrs)] | Goodman & Gillman (G&G) Ch 40 DiPiro Ch 13, 43, 44; Hammer Ch 9 | Mendez |
| | | Class 2 10-10:50 am | Pathophysiology of pulmonary system and Asthma/COPD/Allergic Rhinitis | G&G Ch 40 DiPiro Ch 13, 43, 44 | Mendez |
| | Aug 25 (Tues) | Class 3 9-9:50 am | Pharmacology of B2 agonists, anticholinergic, corticosteroids, cromolyn, anti-leukotrienes, immune therapy | G&G Ch 40 | Mendez |
| | | Class 4 10-10:50 am | | | |
| | Aug 26 (Wed) | Class 5 9-9:50 am | Medicinal Chemistry of B2 agonists, anticholinergic, corticosteroids, cromolyn, anti-leukotrienes, immune therapy | Foye's Ch 28 | Sirimulla |
| | | Class 6 10-10:50 am | | | |
| | Aug 27 (Thurs) | Class 7 9-9:50 am | Pharmaceutics of inhaled medications Activity | DiPiro Ch 43 | Bell |
| | | Class 8 10-10:50 am | | | |
| | End of Exam 1 Material (Classes 1-8) | | | | |
| 2 | Aug 31 (Mon) | Class 9 9-9:50 am | Pharmacotherapy of Asthma | 1.Asthma Care Quick Reference 2.Asthma Medication Chart | Bell |
| | | Class 10 10-10:50 am | | | |
| | Sept 1 (Tues) | 7:30 – 8:50 am | EXAM 1 (Classes 1-8) | | |
| | Sept 1 (Tues) | Class 11 9-9:50 am | Pharmacotherapy of COPD | 1.GOLD 2019 COPD Pocket Guide 2.COPD Medication Chart | Bell |
| | | Class 12 10-10:50 am | | | |
| | Class 13 | Asthma/COPD Cases | DiPiro Ch 13 | Bell | |

| | | | | | | |
|---|--|---------------------------------------|--|----------------------------------|-----------|--|
| | Sept 2 (Wed) | 9-9:50 am | | | | |
| | | Class 14 10-10:50 am | Allergic Rhinitis | | | |
| | Sept 3 (Thurs) | Class 15 9-9:50 am | Smoking Cessation | Articles on Blackboard | Bell | |
| | | Class 16 10-10:50 am | | | | |
| 3 | Sept 7 (Mon) | | LABOR DAY—NO CLASS | | | |
| | Sept 8 (Tues) | Class 17 9-9:50 am | Case Day | | Bell | |
| | End of Exam 2 material (Classes 9-17) | | | | | |
| | Sept 8 (Tues) | Class 18 10-10:50 | Physiology and Pathophysiology of Pain | DiPiro Ch 77 & 78 Hammer Ch 8 | Mendez | |
| | Sept 9 (Wed) | 7:30 – 8:50 am | EXAM 2 (Classes 9-17) | | | |
| | Sept 9 (Wed) | Class 19 9-9:50 am | Pharmacology of Pain | G&G Ch 13 & 20 | Mendez | |
| | | Class 20 10-10:50 am | | | | |
| Sept 10 (Thurs) | Class 21 9-9:50 am | Pharmacology of Pain | DiPiro Ch 77 & 78 | Mendez | | |
| | Class 22 10-10:50 am | Medicinal Chemistry of Pain | Foye's Ch 15 | Sirimulla | | |
| 4 | Sept 14 (Mon) | Class 23 9-9:50 am | Medicinal Chemistry of Pain | Foye's Ch 14 | Sirimulla | |
| | | Class 24 10-10:50 am | | | | |
| | Sept 15 (Tues) | Class 25 9-9:50 am | Pharmacotherapy of Pain | DiPiro Ch 77 | Arndt | |
| | | Class 26 10-10:50 am | | | | |
| | Sept 16 (Wed) | Class 27 9-9:50 am | Pharmacotherapy of Pain | DiPiro Ch 77 | Arndt | |
| End of Exam 3 Material (Classes 18-27) | | | | | | |
| Sept 16 (Wed) | Class 28 10-10:50 am | Pharmacotherapy of Headache Disorders | DiPiro Ch 78 | Arndt | | |

| | | | | | | |
|---|---|----------------------------|---|---------------------|-----------|--|
| | Sept 17 (Thurs) | Class 29 9-9:50 am | Pharmacotherapy of Headache Disorders | DiPiro Ch 78 | Arndt | |
| | | Class 30 10-10:50 am | Physiology of Gastrointestinal system | Hammer Ch 13 | Mendez | |
| 5 | Sept 21 (Mon) | Class 31 9-9:50 am | Pathophysiology of Nausea/Vomiting | G&G Ch 50 | Mendez | |
| | | Class 32 10-10:50 am | Pharmacology of Nausea/Vomiting | G&G Ch 50 | Mendez | |
| | Sept 22 (Tues) | 7:30 -8:50 am | EXAM 3 (Classes 18-27) | | | |
| | Sept 22 (Tues) | Class 33 9-9:50 am | Pharmacotherapy of Nausea/Vomiting | DiPiro Ch 52 | Pinal | |
| | | Class 34 10-10:50 am | | | | |
| | Sept 23 (Wed) | Class 35 9-9:50 am | Pathophysiology of GERD/Peptic Ulcer Disease | G&G Ch 49 | Arndt | |
| | End of Exam 4 Material (Classes 28-35) | | | | | |
| | Sept 23 (Wed) | Class 36 10-10:50 am | Pharmacology of GERD/PUD | G&G Ch 49 | Arndt | |
| | Sept 24 (Thurs) | Class 37 9-9:50 am | Pharmacology of GERD/PUD | G&G Ch 49 | Arndt | |
| | | Class 38 10-10:50 am | Medicinal Chemistry of Nausea/Vomiting and GERD/PUD | Foye's Ch 26 | Sirimulla | |
| 6 | Sept 28 (Mon) | Class 39 9-9:50 am | Pharmacotherapy of GERD/PUD | DiPiro Ch 49 & 50 | Pinal | |
| | | Class 40 10-10:50 am | | | | |
| | Sept 29 (Tues) | 7:30 – 8:50 am | EXAM 4 (Classes 28-35) | | | |
| | Sept 29 (Tues) | Class 41 9-9:50 am | Pharmacotherapy of Dehydration/Oral Replacement Therapy | Dipiro Ch 159 & 160 | Pinal | |
| | | Class 42 10-10:50 am | Pharmacotherapy of Clinical Nutrition | Dipiro 158 | Arndt | |
| | Sept 30 (Wed) | Class 43 9-9:50 am | Nutrition Assessment and Pathophysiology of Obesity | Dipiro 161 | Arndt | |
| Class 44 10-10:50 am | | Pharmacotherapy of Obesity | Dipiro 161 | | | |
| End of Exam 5 Material (Classes 36-44) | | | | | | |

| | | | | | | |
|---|-------------------------|------------------------------|---|--|-----------|--|
| | Oct 1 (Thurs) | Class 45 9-9:50 am | Pathophysiology of Constipation/Diarrhea | G&G Ch 50 | Arndt | |
| | | Class 46 10-10:50 am | Pathophysiology of Inflammatory Bowel Disease (IBD/Celiac Disease (CD)/Ulcerative Colitis(UC) | Hammer Ch 13 (IBD sections only) | Arndt | |
| 7 | Oct 5 (Mon) | Class 47 9-9:50 am | Pharmacology of Constipation/Diarrhea | G&G Ch 50 | Mendez | |
| | | Class 48 10-10:50 am | | | | |
| | Oct 6 (Tues) | 7:30 – 8:50 am | EXAM 5 (Classes 36-44) | | | |
| | Oct 6 (Tues) | Class 49 9-9:50 am | Pharmacotherapy of Constipation/Diarrhea and in Special Populations | DiPiro Ch 53 | Arndt | |
| | | Class 50 10-10:50 am | | | | |
| | Oct 7 (Wed) | Class 51 9-9:50 am | Pharmacology of IBD/CD/UC | G&G Ch 51 | Arndt | |
| | | Class 52 10-10:50 am | Medicinal Chemistry of IBD/CD/UC and Constipation/Diarrhea | Foye’s Ch 26 | Sirimulla | |
| End of Exam 6 Material (Classes 45-52) | | | | | | |
| Oct 8 (Thurs) | Class 53 9-9:50 am | Pharmacotherapy of IBD/CD/UC | DiPiro Ch 53 | Arndt | | |
| | Class 54 10-10:50 am | | | | | |
| 8 | Oct 12 (Mon) | 7:30 – 8:50 am | EXAM 6 (Classes 45-52) | | | |
| | Oct 12 (Mon) | Class 55 9-9:50 am | Pathophysiology of Hepatitis A, B, C | Hammer Ch 14 (viral and chronic hepatitis sections only) | Arndt | |
| | | Class 56 10-10:50 am | Pharmacology of Hepatitis A, B | G&G Ch 63 | | |
| | Oct 13 (Tues) | Class 57 9-9:50 am | Pharmacotherapy of Hepatitis A, B, C | Dipiro Ch 57 | Arndt | |
| Class 58 10-10:50 am | | | | | | |
| FINAL | Oct 19 (Mon) | 3:00 – 5:45 pm | FINAL EXAM (Classes 53-58 plus comprehensive material) | | | |

* Additional reading material may be required by some lecturers