School of Pharmacy
Required Course Syllabus
Fall – P1
Course # PHAR 6401/Track: Pharmaceutical Foundations

Principles of Drug Action

Course Dates: August 24 - October 13 2020
Scheduled Course Time: Monday-Thursday 9:00 am-11:00 am
Location: Online (Virtual)

Course Coordinator and Instructor

Ian Mendez, PhD
Assistant Professor
Email and MS Teams: iamendez2@utep.edu
Virtual Office Hours: Tues and Thurs 12:00pm – 1:00pm, Blackboard Collaborate Course Room

Course Instructors

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Professor
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Course Description

Principles of drug action is a course that introduces students to the general principles that govern pharmacotherapy. This course integrates medicinal chemistry, pharmacology, and toxicology building on the principles acquired in chemistry, biology, anatomy, and, physiology. This course begins with an introduction to the basic principles of medicinal chemistry and pharmacology, including pharmacokinetics and pharmacodynamics, their relationship to routes of drug administration and drug formulations, receptor signal transduction, second messenger systems, drug-receptor interaction, dose-response curves, biological variability and principles of pharmacogenetics, drug adverse effects, drug-drug interactions, and drug development. The course will also discuss the physiology, biochemistry, and pharmacology of the autonomic nervous system (ANS), including the parasympathetic and sympathetic system, as well as give an introduction to the central nervous system (CNS), including it receptors & neurotransmitters. Emphasis is placed upon learning the chemical structures and pharmacological properties, sites and mechanisms of action, metabolism and toxicology of important drug classes as a means for lifelong understanding of present and future pharmacological agents. The course will conclude with an introduction into toxicology with an emphasis on commonly encountered toxicities and their antidotes. Students are expected to bring with them the basic knowledge of chemistry and biology to understand better these new concepts. Ultimately, this course will provide the knowledge foundation and background relevant to the subsequent Integrated Systems-Based Pharmacotherapy (ISBP) courses.

What part of PPCP (Pharmacists' Patient Care Process) is addressed. This course assists students in **assess**ing the mechanism of action of drugs to make an appropriate recommendation.

Click on the following link for more information on the Pharmacists' Patient Care Process: https://www.pharmacist.com/sites/default/files/files/PatientCareProcess.pdf

Office Hours

Dr. Mendez will host live, synchronous office hours (T&R, 12pm-1pm, on the Blackboard Collaborate Course Room) and will accommodate students as time permits. Students may submit questions or request an appointment with course instructors via e-mail or MS Teams at least 48 business hours in advance.

Detailed Course Meetings & Location

Online, 9:00am-11:00am, Monday-Thursday, August 24 - October 13 2020

The course will consist of mostly asynchronous video lectures; however, there will be 4 exam and 2 activity dates that will require live attendance. Asynchronous video lectures will be recorded live and recordings for these lectures will be made available in the course Blackboard shell no later than 3pm on the day they are recorded. Attendance during live lectures is not required, but highly recommended. On 09/03 and 10/05 there will be live team activities and on 09/08, 09/22, 10/06, and 10/19 there will be live exams. **Students are expected to attend and participate in all group activities and exams during the scheduled dates and times. The course coordinator may adapt the syllabus/course calendar at any time to support student and course success.** Check your UTEP email regularly for announcements.

Online Platform/Blackboard:

This semester the course will be taught online using Blackboard 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 PHAR 6401. The course is individualized and students may access course material as it is made available by course instructors. Except in cases of a UTEP network being "down" or "offline" you are ultimately responsible to ensure that your computer is connected to the internet and that any issues are addressed prior to class and/or assessments.

Online Assessment Requirements:

This course requires the use of ExamSoft ExamMonitor®. Students are responsible for creating their online login within the first 3 days 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 first 3 days of class. Students are responsible for ensuring they have access to the online assessment system. Mr. Enriquez is NOT available for questions or laptop failures/requests after business hours or on weekends. Electronic exams need to be downloaded at a minimum of 2 hours prior to the examination to avoid a 10% grade penalty deduction. Repeated instances (> 1 time) of not downloading electronic exams will result in a referral to the professionalism committee on the SOP Progression Committee and additional 10% grade penalty deduction from the student's earned exam score.

COVID 19:

Should the course meets on campus during the semester, then 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

Course Learning Objectives **(Mapped to national outcomes)** **At the conclusion of this course, students should be expected to:**	**CAPE Outcomes**	**PCOA / NAPLEX**	**Learning Activities**	**Outcome Measures**	**Level of Assesssment** (I) Introduce, (R) Reinforce, (A) Apply
Objective 1 Describe the basic concepts of pharmacology, such as pharmacokinetics (how the body handles a drug) and pharmacodynamics (how the drug affects the body).	1.1	2.1.2 2.2.1	Readings, lectures, discussions, and class activities	**Quiz, Exam**	**I, R**
Objective 2 Describe the various drug metabolic pathways	1.1 3.1	2.1.5 2.2.1	Readings, lectures, discussions, and class activities	**Quiz, Exam**	**I, R**
Objective 3 Describe the basic concepts of pharmacokinetics, such as route of administration, drug absorption, distribution, metabolism, and elimination (ADME), as well as the physicochemical properties of drugs in relation to ADME.	1.1	2.1.1 2.1.2 2.1.5 2.2.1 2.5.1 2.5.3	Readings, lectures, discussions, and class activities	**Quiz, Exam, team assignment**	**I, R**
Objective 4 Describe the basic concepts of pharmacodynamics, such as potency, efficacy, agonist, antagonist (competitive and noncompetitive), synergism, antagonism, dose-response curve, biologic variability, etc.	1.1	2.2.1 2.2.2 2.6.1 2.6.1	Readings, lectures, discussions, and class activities	**Quiz, Exam**	**I, R**
Objective 5 Describe the principles of drug-drug interactions, and drug adverse effects.	1.1 3.1 3.6	2.2.1 2.2.3 2.2.4	Readings, lectures, discussions, and class activities	**Quiz, Exam, team assignment**	**I, R**
Objective 6 Describe the processes of drug discovery and drug development.	1.1 3.1 3.6	2.2.5	Readings, lectures, discussions, and class activities	**Quiz, Exam, team assignment**	**I, R**
Objective 7 Identify the two subdivisions of the autonomic nervous system (ANS), the sympathetic (also called adrenergic) and the parasympathetic (also called cholinergic).	1.1	2.2.1 2.2.2	Readings, lectures, discussions, and class activities	**Quiz**, **Exam**	**I, R**

Objective 8 Compare the contribution of each subdivision of the ANS in normal functions (physiology) as well as in different pathological states.	1.1 3.1	2.2.1 2.2.2	Readings, lectures, discussions, and class activities	**Quiz, Exam**	**I, R**
Objective 9 Identify the major central nervous system functional regions and their relevance in different pathological states.	1.1	2.2.1	Readings, lectures, discussions, and class activities	**Quiz, Exam**	**I, R**
Objective 10 Identify the important and major chemical functional groups and how these functional groups may contribute to the pharmacological effects of a drug.	1.1 3.1	2.2.1 2.2.2	Readings, lectures, discussions, and class activities	**Quiz, Exam**	**I, R**
Objective 11 Apply the basic concepts of pharmacology to clinical problems and situations.	1.1 3.1 3.2	2.2.1 2.2.2	Readings, lectures, discussions, and class activities	**Quiz, Exam, Team Assignment**	**A**
Objective 12 Describe the main principles of toxicology and clinical toxicology.	1.1 3.1 3.2	2.2.6	Readings, lectures, discussions, and class activities	**Quiz, Exam**	**I, R**

Expectations of Students During Course

Students are expected to be professionals and will be treated as such unless circumstances deem otherwise. Any behavior that impairs students' ability to learn will not be tolerated. Cell phones should NEVER be heard in during live lectures! Please keep your microphones muted during live lectures and discussions. If you would like to comment, please use raise hand or text chat options. Using your laptop for other activities than taking notes may cause a disruption to the live lecture. Attendance at live lectures is not mandatory, but attendance for group activities will be taken and participation points will be given for attending (see Evaluation and Grading Policy). Attendance and punctuality for live lectures are strongly recommended. Missing group activities or exams for work is NOT a valid reason for your absence. It is the responsibility of the student to monitor his/her progress during the course. Students should seek advice and assistance from the course coordinator as soon as he/she encounters any difficulty in the course.

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:

1. **Outside Preparation:** Student will be expected to complete the reading assignments and reviewing the slides and/or handouts before class in order to participate actively during class discussions
2. **Online Lectures:** reinforces essential, complex information and models the processes of problem solving.
3. **Interactive Activities:** class discussion and active learning strategies will be employed throughout the course as needed to promote critical thinking and to strengthen understanding of the basic principles.
4. **Exams/Quizzes** – allows students to demonstrate the course ability outcomes and instructors to provide necessary feedback.

Required Course Technology/Tools/Needs

Required Textbooks:

- Goodman & Gilman's ***The Pharmacological Basis of Therapeutics***, 13th edition, McGraw-Hill, Medical Publishing Division, 2017.
- Hoffman RS, Howland MA, Lewin NA, and Nelson LS. **Goldfrank's Toxicologic Emergencies**. 10th ed. McGraw-Hill Publishing. 2015.

Recommended Textbooks:

- Katzung BG. ***Basic and Clinical Pharmacology***. 13th Ed. San Francisco: McGraw-Hill; 2010.
- DiPiro JT, Talbert RL, Yee GC, Matzke GR, Wells BG, Posey LM. ***Pharmacotherapy: A Pathophysiologic Approach,*** 10th edition, McGraw-Hill Education, 2017
- Golan, David E. ***Principles of Pharmacology: The Pathophysiologic Basis of Therapeutics***. 4th edition. Lippincott Williams & Wilkins (*on reserve in library*)

Laptop Computer

- Students are expected to use their computers each class day 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).
- 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
- **Audio (speaker & microphone) and video (camera) MUST be checked to be functional for classes and online exams**

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, 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 Netiquette: 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.

Evaluation and Grading Policy

Course point distribution will be as follows:

Type of Assessment	Total Points	% Course Grade
Exam I	**56**	**19%**
Exam II	**56**	**19%**
Exam III	**52**	**17%**
Final Exam	**71**	**22%**
Group Activities (2)	**80**	**24%**
Participation Points	**15**	**5%**
Total	**330**	**100%**

Assignment of grades:

A = 90 – 100%
B = 80 – 89%
C = 70 – 79%
F < 70%

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

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

Exams: Four live, sychronous examinations (including the final) are scheduled. The examinations contribute 78% toward the total score. Refer to the course calendar for dates, times, and topics. All Exams will be administered via ExamSoft ExamMonitor®, unless noted otherwise. Students are expected to participate in the exams during the scheduled dates and times. *Please make sure latest version of exemplify is installed on your computer.

Group Online Activities: Two online activities will be completed in the course. Students are required to attend and participate in these online activities. More information on the activity may be provided by instructors prior to the activity date. See course calendar for dates and times.

Participation Points: Participation points will be assigned based on participation in asynchronous course activities developed by the instructors. No participation points will be given out during live optional lectures; however, instructions for completing asynchronous assignment may be presented in live recorded lectures.

Bonus Points: Instructors may give bonus points at their own discretion at any point during the course, including voluntary live lectures.

Missed Exams, Activities, and Assignments Policy

Unexcused Absence:
Only students who miss an exam, activity, or 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.

What will happen if a student misses an exam, activity, or an assignment due to an excused absence?

- If an activity or assignment is missed, then at the discretion of the coordinator and instructor, a make-up assignment may be developed and scheduled.
- Missing an examination may mean taking a make-up exam/work or using a process similar to missing a quiz.

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 further information and end-of-course remediation policies and timelines (***see Table of Contents for End of Course Remediation***). There will be no in-course remediation of any assessment or assignment.

Online Assessment Requirements and Guidance

ExamSoft and ExamMonitor

Students will need to contact ExamSoft support for any technical issues during an exam. This would be the only scenario where students will be allowed to use their cell phones. Although this will be flagged by ExamMonitor, faculty will know that a student contacted ExamSoft. **Students must make sure to request a case/ticket number from ExamSoft,** as this will serve as proof for the course coordinator. The case/ticket number must be submitted to the course coordinator.

During an exam, if a student has any questions/concerns regarding exam questions, please type the question(s) on the Notes section within Examplify. Please do not bring scratch paper or calculators to exams, as these will be enabled in Examplify. The contact information for ExamSoft Support. This information must be saved to your phones: **ExamSoft Technical Support 866.429.8889 or 954.429.8889**

Technology 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

This course requires the use of ExamSoft® and ExamMonitor. 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.**

Laptops and Computers

Checking computer requirements and ensuring that all software up to date is essential for students to access course content. **Supported browsers include** – For a PC: Mozilla, FireFox, Google Chrome (Do NOT use Internet Explorer) and for a Mac: Safari, Firefox, and Google Chrome. To enhance browser performance, students should clear the browser cache and allow pop-ups. In addition to testing the web browser, check to ensure that the computer has an updated version of Java (go to http://java.com, click on "Do I have Java", click on "Verify Java Version," update Java if needed). Additional browser plugins 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 Help Desk for assistance. If technical problems are experienced with the course, students should contact the UTEP Helpdesk 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: http://admin.utep.edu/Default.aspx?tabid =74094. In order for UTEP to provide a stable learning environment, Thursdays from 12:00-6:00am MST are reserved for minor preventive maintenance. This maintenance window is scheduled during the lowest usage time for the system. Blackboard may or may not be available during this time, depending on whether maintenance is necessary. Whenever possible, this time will be utilized to perform all minor maintenance. Unscheduled outages occur rarely, but they do happen. In the event of an unscheduled outage, Technology Support Services will confer with appropriate student and faculty networks to provide appropriate notifications to those affected. 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 http://admin.utep.edu/Default.aspx?tabid =74174.

Attendance and Behavior

The attendance and professionalism policies for the School of Pharmacy are outlined in the Student Handbook. It is expected that students will demonstrate their commitment to the profession and respect for instructors, guest speakers, and colleagues by reviewing all content on the assigned date, attending all required live sessions, and being on time and prepared for attended lesson(s). If a student is unable to review the online material scheduled for a given date, they should immediately notify the course coordinator(s) and instructor(s). If a student has an excused absence, they should immediately notify the course coordinator(s) and instructor(s) prior to the start of missed class. 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.

Exam Day Policy

Students are expected to start the 4 course exams on time and during the scheduled dates and times. Students beginning after any student(s) has/have completed the exam may not be allowed to take the exam, and may receive a score of zero. No allowances will be made for an exam being missed, other than documented illness or emergency. The student must contact the course coordinator for confirmation of excused absence prior to the exam. If permission is granted to delay the exam, it is the student's responsibility to contact the course coordinator to arrange for an alternative exam time. In this event, the nature of the make-up will be at the discretion of the course coordinator and instructors (oral, written, increased weighting, etc.). An unexcused absence from an exam may result in a grade of "zero" for that exam.

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.

Exams, Activities, and Assignments: Any questions concerning exams, activities, and assignments 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 regarding regrading will not be entertained after this period (unless excused absence due to extenuating circumstances).

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. The instructor is required to report all suspected academic dishonesty to the UTEP Office of Student Conduct and Conflict Resolution. Please refer to the Student Handbook for SOP guidance on academic integrity (***see Table of Contents for Curriculum and Classroom Policies: Academic Integrity***).

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

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

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 Student Handbook and as per UTEP's student conduct policies (see http://sa.utep.edu/osccr/student-conduct/ & http://admin.utep.edu/Default.aspx?tabid=73922 for further information). Any student who engages in conduct that is prohibited by the Board of Regents' Rules and Regulations, University or SOP rules or by federal, state, or local law is subject to discipline whether such conduct takes place on or off campus or whether civil or criminal penalties are also imposed for such conduct. Please refer to the Student Handbook for specific expectations regarding professional conduct in the SOP (***see Table of Contents for Academic Progression: Good Standing: Professional***).

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/

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 your responsibility to review the syllabus periodically for updates.

Additional Information

Campus Concealed Carry:

Effective August 1, 2016.
http://sa.utep.edu/campuscarry/

Civility Statement:

You are expected to follow basic standards of courtesy (http://admin.utep.edu/Default.aspx?tabid=73922) and may be dismissed from class for blatant or sustained disruptive behavior

Cell Phone Policy (Optional for Faculty to adapt or not)

Students should carry cell phones, but keep the phone on the vibrate mode in the event students need to be notified by the emergency alert system. Cell phone use for the purpose of texting, email or social media is not permitted. This 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.

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): 747-5302, which after-hours goes to a crisis line
- Mental Health Crisis Line: 779-1800
- National Suicide Prevention Hotline: 1-800-273-8255
- Veterans Crisis Line: 1-800-273-8255
- NAMI (National Alliance Against Mental Illness) of El Paso: 534-5478
- http://caringeducators.tumblr.com/survival

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 http://admin.utep.edu/Default.aspx?tabid=68750]

Learning Technology

On March 30, President Wilson wrote in message to students, faculty and staff that all 25,000 UTEP students will be engaged in online learning. Students will join thousands of UTEP faculty and staff working remotely in order to comply with public health guidelines. With this added strain on internet use across the city, it is important to optimize the performance of your home network.

UTEP offers the following tips for taking online courses

Check Your Plan

•For starters, check your internet plan. What speed of service do you subscribe to? Is it enough to meet any new demands? FCC consumer guides on household broadband use and broadband speeds may be helpful for you to determine your home Internet usage needs.

Test Your Speed

•If your speeds are slower than expected, you should contact your internet service provider for troubleshooting tips, or if there is an outage or service disruption in your area that is affecting your speeds.
•Sometimes a simple router reboot—by powering it off and then back on again—can resolve a problem.
•If these tips do not work, you may have an equipment issue, such as an outdated router.
•Search the model number on your router to see if it's capable of providing your subscribed speeds. It might need to be updated to take advantage of higher speeds.
•If updates are not available, you may need to purchase or rent a new router from your service provider.

Create an Internet Schedule

•Even the latest Wi-Fi routers with fast service speeds can get bogged down by a family of users.
•Set guidelines with your family for daily schedules to avoid performance issues and prioritize usage.
•If your job offers flexible hours, you may be able to work around high-traffic times on your home network.

Microsoft OneDrive

• UTEP faculty, staff and students have the option to use Microsoft OneDrive for Business.
•The University-supported cloud storage system is accessible anywhere, anytime, from any device.
•Current students can utilize Microsoft OneDrive for Business to store, sync and share files across all devices.
• Learn more:www.utep.edu/technologysupport/ServiceCatalog/DATA_OneDrive.html

Explore Your Options

•If you get a good cellular signal in your home, another way to alleviate home Wi-Fi network congestion is to disconnect your cellular devices from your Wi-Fi network.
•You may also be able to use your cellular device as a mobile hotspot.
•Before switching any of your devices to cellular-only service, check your data plan to make sure you won't go over any data caps and incur overage charges. You can also explore options for fixed wireless service or other cellular alternatives in your area.
•If you're not seeing congestion on your in-home Wi-Fi network, turning on Wi-Fi and Wi-Fi calling from your smartphone can conserve data and reduce potential congestion on mobile networks.
•Many service providers have committed to providing free Wi-Fi hotspots during the national coronavirus emergency. Some are offering discounts or upgrades at low or no cost or eliminating caps on data plans.

How to Succeed in this Online Course

If you want to be a successful student

- Treat this course like a "real" live course.
- Be self-motivated and self-accountable.
- Be willing to "speak up" if any problems occur.
- Be able to communicate through writing/messaging/chats.
- Practice time management and stay on schedule.
- Create a consistent quiet study space.
- Make sure you have the technical computer requirements.

If you want to be an unsuccessful student

- Wait until the last day to read or complete assignments.
- Do not review material until the night before an exam.
- Forget about deadlines.
- Do not have interactions with the course coordinator, instructors or classmates.
- Ignore emails from the course coordinator, instructors and/or your peers regarding course activities.
- Do not know about any grade requirements and the course syllabus.

Course Number PHAR 6401: Course Calendar and Topic Outline

Principles of Drug Action

Online, Mon-Thurs 9am-11am, 08/24/2020 – 10/13/2020

Week	Date	Time	Topics	Required Reading*	Faculty
1	Mon 08/24	09:00-9:10 9:10-11:00	Introduction to Course Principles of Pharmacology	Course Syllabus G&G#, Chapter 1	Dr. Mendez Dr. Qin
	Tue 08/25	09:00-10:00 10:00-11:00	Principles of Pharmacology Drug forms (formulations)	G&G, Chapter 1 (Material by Instructor*)	Dr. Qin Dr. Qin
	Wed 08/26	09:00-10:00 10:00-11:00	Routes of Drug Administration Routes of Drug Administration	(Material by Instructor) (Material by Instructor)	Dr. Qin Dr. Qin
	Thu 08/27	09:00-10:00 10:00-11:00	Introduction to Pharmacokinetics Pharmacokinetics (Absorption)	G&G, Chapter 2 G&G, Chapter 2	Dr. Qin Dr. Qin
2	Mon 08/31	09:00-10:00 10:00-11:00	Pharmacokinetics (Distribution) Pharmacokinetics (Distribution)	G&G, Chapter 2 G&G, Chapter 2	Dr. Qin Dr. Qin
	Tue 09/01	09:00-10:00 10:00-11:00	Pharmacokinetics (Distribution) Drug Metabolism	G&G, Chapter 2 G&G, Chapter 6 + Material by Instructor	Dr. Qin Dr. Qin
	Wed 09/02	09:00-10:00 10:00-11:00	Drug Excretion Introduction to Pharmacodynamics	G&G, Chapter 2 G&G, Chapter 3	Dr. Qin Dr. Qin
	Thu 09/03	**09:00-11:00**	**Group Activity I**		**Dr. Qin**
3	**Mon 09/07**	**Labor Day Holiday**			
	Tue 09/08	**09:00-11:00**	**Exam I**	**Lectures 08/24-09/03**	**Dr. Mendez Dr. Qin**
	Wed 09/09	09:00-10:00 10:00-11:00	Second Messenger Systems Receptors & Signal Transduction	G&G, Chapter 3 & 5 G&G, Chapter 3 & 5	Dr. Qin Dr. Qin
	Thu 09/10	09:00-10:00 10:00-11:00	Receptors & Signal Transduction Receptors & Signal Transduction	G&G, Chapter 3 & 5 G&G, Chapter 3 & 5	Dr. Qin Dr. Qin
4	Mon 09/14	09:00-10:00 10:00-11:00	Dose-Response Curves: Agonists and Antagonists Dose-Response Curves: Agonists and Antagonists	G&G, Chapter 3 & 5 G&G, Chapter 3 & 5	Dr. Qin Dr. Qin
	Tue 09/15	**08:00-09:00** 09:00-10:00 10:00-11:00	**Dose-Response Curves: Agonists and Antagonists** Dose-Response Curves: Agonists and Antagonists Pharmacogenetics (Biological Variability)	**G&G, Chapter 3 & 5** G&G, Chapter 3 & 5 G&G, Chapter 7	**Dr. Qin** Dr. Qin Dr. Qin
	Wed 09/16	**08:00-09:00** 09:00-10:00 10:00-11:00	**Pharmacogenetics (Biological Variability)** Drug Adverse Effects Drug-Drug Interactions	**G&G, Chapter 7** G&G, Chapter 4 G&G, Chapter 4	**Dr. Qin** Dr. Qin Dr. Qin
	Thu 09/17	**IPE-No PDA Class**			
5	**Mon 09/21**	09:00-10:00 10:00-11:00	Drug Development Drug Development	G&G, Chapter 1 + Material by Instructor) G&G, Chapter 1 + Material by Instructor	**Dr. Qin Dr. Qin**
	Tue 09/22	**09:00-11:00**	**Exam II**	**Lectures 09/09-09/21**	**Dr. Mendez Dr. Qin**
	Wed 09/23	09:00-10:00 10:00-11:00	Physiology the Nervous System Physiology of the ANS	G&G, Chapter 8 (sections: Anatomy, Function)	Dr. Mendez Dr. Mendez

	Thu 09/24	09:00-10:00 10:00-11:00	Neurotransmitters of the ANS, Synthesis and Metabolism Receptors of the ANS	G&G, Chapter 8 (section: Neurochemical Transmission)	Dr. Mendez Dr. Mendez
Week	**Date**	**Time**	**Topics**	**Required Reading***	**Faculty**
6	Mon 09/28	09:00-10:00 10:00-11:00	Nicotinic Agonists and Antagonists Muscarinic Agonists and Antagonists	G&G, Chapter 11 G&G, Chapter 9	Dr. Mendez Dr. Mendez
	Tue 09/29	09:00-10:00 10:00-11:00	Acetylcholinesterase Inhibitors Acetylcholinesterase Inhibitors	G&G, Chapter 10	Dr. Mendez Dr. Mendez
	Wed 09/30	09:00-10:00 10:00-11:00	α-Adrenergic Agonists and Antagonists β-Adrenergic Agonists and Antagonists	G&G, Chapter 12	Dr. Mendez Dr. Mendez
	Thu 10/01	**09:00-11:00**	**Group Activity II**		**Dr. Mendez**
7	**Mon 10/05**	09:00-11:00	Physiology of the CNS Physiology of the CNS	G&G, Chapter 14 (sections: Intro, Organization)	Dr. Mendez Dr. Mendez
	Tues 10/06	09:00-10:00 10:00-11:00	Receptors & Neurotransmitters of CNS Receptors & Neurotransmitters of CNS	G&G, Chapter 14 (sections: Central Neurotransmitters)	Dr. Mendez Dr. Mendez
	Wed 10/07	**09:00-11:00**	**Exam III**	**Lectures 09/23-10/06**	**Dr. Mendez**
	Thu 10/08	09:00-10:00 10:00-11:00	Toxicology Principles for Mgmt Toxic Agents & Antidotes: Toxidromes	Goldfrank's Ch 3 & 4	Dr. Chavez Dr. Chavez
8	Mon 10/12	09:00-10:00 10:00-11:00	Toxic Agents & Antidotes: Pk/Pd Toxic Agents & Antidotes: GI Decontamination, Enhanced Elimination	Goldfrank's Ch 9 (sections: absorp, distrib, elimin) Goldfrank's Ch 8 & Ch 10	Dr. Chavez Dr. Chavez
	Tue 10/13	09:00-10:00 10:00-11:00	Toxic Agents & Antidotes: Biochemical, Metabolic, & Chemical Principles Toxic Agents & Antidotes: Neurotransmitters, Neuromodulators & Withdrawal	Goldfrank's Ch 12 & 13 Goldfrank's Ch 14 & 15	Dr. Chavez Dr. Chavez
	10/19	**03:30-6:15**	**Final Exam**	**08/24-10/13**	**Dr. Mendez Dr. Chavez Dr. Qin**

** The course coordinator may adapt the syllabus/course calendar at any time to support student and course success.*

*Additional reading material may be required by some lecturers.

[#] Goodman and Gilman textbook.