

Texas Tech University Health Sciences Center

School of Pharmacy

Doctor of Pharmacy Program



2018-2019

SCHOOL OF PHARMACY CAMPUSES

Abilene

1718 Pine
Abilene, TX 79601

Amarillo

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TABLE OF CONTENTS

Dean's Message	6
School of Pharmacy Philosophy	6
Mission Statement	7
Vision Statement	7
Culture Statement	7
Outcomes	8
Accreditation	8
Purposes and Functions	8
General Information	9
- History	9
- The School of Pharmacy	9
- Amarillo	10
- Abilene	10
- DFW	10
- Lubbock	11
Affiliated Teaching Hospitals	11
The Program	

Dean's Message

It is a goal of all educators to foster within students the desire to learn and the ability to discover. Our curriculum has been designed to encourage intellectual development and help the student become a competent and skilled professional pharmacist. This is accomplished through conceptual competence, technical competence, integrated competence, and career marketability.

Pharmaceutical education must provide students a fundamentally strong science base enabling them to understand the progression of diseases and how drug therapy can influence or reverse this process.

Pharmacists evaluate clinical studies and use data to reach conclusions regarding a variety of issues.

Graduates must be mathematically competent in the resolution of problems related to drug therapy.

Analytical thinking must be cultivated allowing today's pharmacy pharmacist to be effective in decision making. Communication skills are essential in preparing the student to be an effective pharmacist.

Graduates must have an understanding of the social context in which their profession is practiced. They must learn to first listen in order to effectively convey information regarding drug therapies. There must also be sensitivity to patients of all socio-economic levels and cultural backgrounds whose native language is not English.

TTUHSC School of Pharmacy's program is student centered, focusing on problem-based educational strategies. The curriculum provides an integrated course context of pathophysiology, pharmacology, medicinal chemistry, and therapeutics, built on a solid understanding of the biomedical sciences. It offers expanded practice management instruction and clinical experiences early and throughout the four-year professional program. Each of the curricular and instructional strategies has been precisely balanced to give the academic and clinical preparation to optimally succeed in any pharmaceutical profession.

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< Collaborative interpersonal relationships ² defined as mutual learning, open communication, and shared responsibility among faculty, administration, and students.

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3. Manage medication-use systems, which is defined as the ability to apply patient-and population-specific data quality improvement strategies, medication safety and error reduction programs, and research processes to minimize drug misadventures and optimize patient outcomes; to participate in the development of drug use and health policy; and to help design pharmacy benefits.
4. Promote the availability of effective health and disease prevention services and health policy, which is defined as the ability to apply population-specific data, quality improvement strategies, informatics, and research processes to identify and solve pu

assigned to Abilene or Dallas, most students will stay at that campus for the duration of their pharmacy education, with some possible clerkship experiences at regional campuses. The School of Pharmacy has more than 620 students enrolled in professional and postgraduate programs. The School of Pharmacy employs approximately 94 full-time equivalent faculty, 45 post-doctoral pharmacy residents, and 37 graduate teaching and research assistants; approximately 67 staff serve the students and programs of the School.

Amarillo

The School of Pharmacy is based in two buildings: The Pharmacy building, a 102,000 sq. ft. building (built in 1996) on the Amarillo campus of the Texas Tech University Health Sciences Center, and the adjacent Pharmacy Academic Center, a 23,000 sq. ft. building (built in 2009). The original pharmacy building was provided through funds donated by the people of Amarillo. The Pharmacy building features a 240-seat lecture center and four classrooms offering interactive video conferencing capabilities and network capabilities. In addition, the Pharmacy Academic Center features two 120-seat classrooms. These classrooms allow students to actively participate with any F D P Six M function while also having computer access to images via the Internet. Other facilities include a Simulation Center, multiple small group conference/study rooms, the Texas Pharmacy Museum, teaching laboratories (drug formulation, sterile products), and student lounges.

The School of Pharmacy is located directly across Coulter Drive from Northwest Texas Hospital. The campus is comprised of the School of Pharmacy, Medicine, Allied Health, Nursing, and the Graduate School of Biomedical Sciences. Other entities include the Texas Tech Physicians Clinic, the Amarillo 5 H V H D U F K % X L O G L Q J W K H / D X U D % X V K , Q V W L W X W H I R U : R P H

Abilene

The Abilene campus is housed in a 35,000 sq. ft. building located adjacent to the Hendrick Medical Center. It offers two video conferencing classrooms outfitted with high speed data ports for each student, two flexible seating classrooms, a drug information center, six case study rooms, a teaching laboratory for compounding and dispensing drugs, a patient counseling practice room, a physical assessment laboratory, a student lounge and study areas, and a 4,600 sq. ft. research laboratory. The Abilene campus is comprised of the School of Pharmacy, School of Nursing, and School of Public Health.

Dallas / Fort Worth

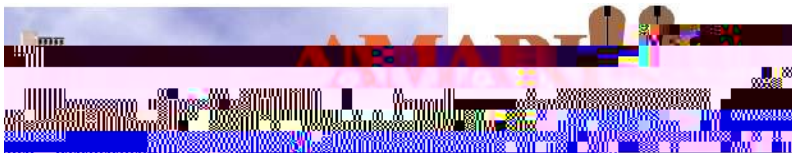
The Dallas/Fort Worth campus supports all four years of the Pharmacy program. Students may complete all four years in Dallas, or may choose to complete their last two years in Dallas after the first two years in Amarillo. The School has two buildings; one on the campus of the Dallas Veterans Affairs Medical Center and the other is within the central Dallas Medical District. The Pharmacy School building on the Dallas VA campus is approximately 10,000 sq. ft. and houses a P3 classroom linked to the other campuses, administrative and faculty offices, small group study rooms, and a student lounge. The campus located within the Dallas Medical District classrooms for the P1 through P3 years linked to other campuses, a compounding lab, virtual anatomy lab, small group study rooms, administrative and faculty offices, and student lounges. Students have rotations among numerous hospitals, clinics, and community pharmacies throughout the Metroplex, working on teams of medical students and other health professionals throughout their four years.

Lubbock

The Lubbock campus is part of the TTUHSC complex on the Texas Tech University campus. Lubbock students have access to all facilities and programs that a comprehensive health sciences center and major academic campus of more than 30,000 students offer. Pharmacy students share classrooms, clinics, and hospitals with medical, nursing, and other allied health sciences students.

AFFILIATED TEACHING HOSPITALS

School of Pharmacy faculty and students provide patient care in the following hospitals:



Amarillo VAMC

The Amarillo Department of Veterans Affairs Medical Center is a 254 bed general medicine and surgery facility employing 850 people. It offers health services to a large geographic area encompassing the Texas Panhandle as well as parts of New Mexico, Oklahoma, Colorado, and Kansas. The medical center has a highly complex pharmacy offering a wide variety of service to include total computerization, unit dose, I.V. admixture, oncology preparation, drug information, investigational drugs, and an open front outpatient pharmacy. Special programs are pharmacist-directed lipid, ulcer, and anticoagulant clinics.

Baptist/Saint Anthony's Healthcare System

This combined healthcare facility is jointly licensed as a 746-bed acute care medical surgical facility. Current pharmacy practice includes the traditional aspect of unit dose distribution as well as clinical services such as target-drug monitoring, a decentralized pharmacy, drug information, clinical interventions, creatinine-clearance estimations, and dosage adjustment recommendations. Staff pharmacists also participate in patient teaching programs.

Northwest Texas Healthcare System

Northwest Texas Hospital is a 300 bed general acute care hospital with services in Pediatrics, Pediatric Intensive Care, Labor & Delivery, Neonatal Intensive Care, Amarillo Emergency Receiving Center, and medical and surgical services including, Medical and Surgical Intensive Care, Coronary Intensive Care, and Level II Trauma Center Services. Pharmacists are actively involved in drug information counseling, patient profile review and drug monitoring, pharmacy and therapeutics functions, medication use evaluation, adverse drug reaction reporting, improving the quality of drug therapy, cost containment, assisting in Code Blue responses, documenting their impact on drug therapy, and continuous quality improvement and total quality management team activities.

ABILENE

employs more than 17,300 people, and counts more than 3,200 physicians with active staff privileges at its hospitals. Experiential clerkship sites are highly sought by Texas Tech Health Sciences Center School of Pharmacy students.

Methodist Health Systems

Methodist Health System offers health and hope to more than 300,000 people a year at its hospitals and family health centers in North Texas. From education and health screenings to multi-organ transplants and advanced cancer treatment and care, it serves the community with some of the latest in preventive, diagnostic, and treatment technology. Every program and treatment is part of their resolve to be an active and compassionate partner in the good health of the entire community. School of Pharmacy students seek unique experiential clerkship sites at Methodist Health System.

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&KLOGUHQTV is a Division of the University of Texas Southwestern Medical Center at Dallas healthcare facility that deals exclusively with a variety of diseases and disorders among children from birth to age 18. The center is licensed for 406 beds, including a 52-bed pediatric intensive care. The hospital also has more than 50 outpatient clinics and a state-of-the-art emergency center designed specifically for children. FLILFDOO\ IRU FKLOGUH is one of only 14 national pediatric research centers sanctioned by the National Institutes of Health. Faculty members of the University of Texas Southwestern Medical Center at Dallas are members of WKH &KLOGUHQTV that is instrumental in developing treatments, therapies, and greater understanding of pediatric diseases. This research is nationally recognized for programs devoted to cancer, cardiothoracic, neonatology, kidney disease, infectious disease, pharmacology, sickle cell disease, and psychiatry. Specialized training in pediatric pharmacy is critical to School of Pharmacy students.

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TEXAS PHARMACY MUSEUM

Inside the Amarillo Pharmacy building, the 3,000 square-foot Texas Pharmacy Museum is the only site

in the state that specializes in collecting, preserving, and laying items that document the history of pharmacy. 7KH PXVHXP¶V FROOHFWLRQ FRQV Linning Pharmacy SUR [LPDW books, containers, laboratory glassware, and various other commercial remedies, products, and tools of the trade,

disability benefits and services described in this operating policy.

Program of Assistance for Students

PAS is a program that enhances wellness by providing you and your family the opportunity to manage
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Health Insurance

You are REQUIRED by Texas Tech University Health Sciences Center (TTUHSC) to pay a Medical Services Fee per semester. With this fee, you can access healthcare in the clinic and see a nurse or physician for minimal or limited minor problems. Health insurance is not required to obtain services from the Family Practice Clinic which are located on or adjacent to each of our campuses with the exception of Dallas. Health plan coverage is strongly recommended for all students to cover major medical, emergency care, specialty care, and pharmacy as these services can be expensive and are not covered by the healthcare provided by TTUHSC. TTUHSC highly encourages and strongly recommends that each student possess medical insurance for emergency situations and for basic medical care needs. You may obtain suitable coverage from the following provider at a very competitive price if you do not have other insurance. Students must be enrolled in 1 or more credit hours to be eligible for Academic Health Plans, www.academichealthplans.com/ttuhsc.

Updated information on immunizations will be provided during your school's orientation. If you require an immunization administered by the Family Medicine Clinic, you will be required to pay a fee. For additional information on centralized services please visit www.ttuhsc.edu/student-services.

Services common to the students on all campuses for the Schools of Pharmacy, Medicine, Allied Health, and Nursing are under one office. The basic elements of this office are:

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Extracurricular Events

Information about tickets to cultural events in the community is available through the Office of Student Services.

Recreation Center

Each campus has information regarding the facilities at each location.

Campus Parking

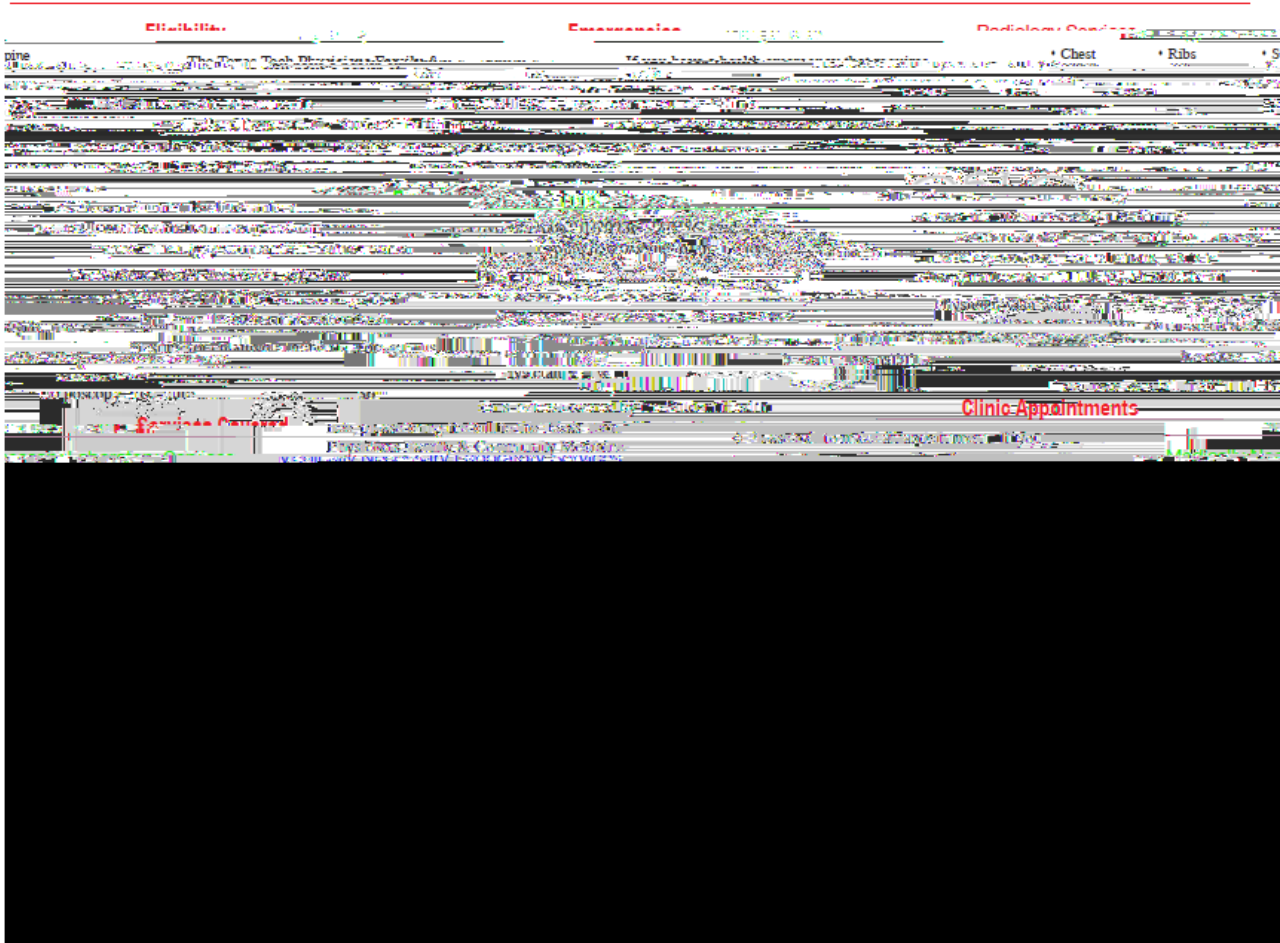
Limited parking facilities are available. Any student wishing to park on any of the campuses will be required to obtain a permit and pay the parking permit fee.

Student Housing

The School of Pharmacy does not furnish living quarters for its students. Housing is individual and each student makes his/her own arrangements. Most students live in apartments or houses in the community. Apartment guides may be obtained from the School of Pharmacy, Office of Student Affairs.

Amarillo HSC Student Senate

The Office of Professional Affairs serves as sponsor and provider of staff support to School of



Student Health Services Dallas:

Southwestern Medical Center Student Health Services
Aston Building
8th Floor, Room 409
5303 Harry Hines Blvd.
Dallas TX 75390
214-645-8690

http://www.ttuhscc.edu/studentservices/documents/Southwestern_2011_for_catalog_and_web.pdf

FINANCIAL INFORMATION

Tuition and fees are established each year by the Board of Regents. In addition to tuition and fees, students are responsible for their books, supplies, travel, and personal expenses associated with completing their clinical experiences. A laptop computer, compatible with the School's system, is also required. Contact the Office of Student Affairs to receive the specifications.

A \$100 application fee must be submitted with the application for admission. The application fee is non-refundable. Applications will not be processed without this fee. The fee is waived for TTUHSC employees on at least a 9-month appointment, their spouses, and dependent children under age 25. Upon acceptance of an offer of admission, the student pays an additional \$400 nonrefundable placement guarantee fee.

Financial Aid

Texas Tech University Health Sciences Center believes the primary responsibility for financing education lies first with the student and his/her family. When the total resources they can provide do not meet expenses, it is the objective of the financial aid program at TTUHSC to provide financial assistance to students who, without such assistance, would not be able to pursue advanced education.

Financial Aid at TTUHSC comes from many sources. Although qualifications for each funding program might differ, no4 12 Tf1 0 0 1 57.525 70.275 Tqr, no progrBT/F4 12 Tf1 0 0 1 184.83 360[rom manyde fin

DOCTOR OF PHARMACY ADMISSIONS POLICY

Admission to the Texas Tech University Health Sciences Center School of Pharmacy is open to all individuals who have permanent U.S. residency status. Applicants who are residents of Texas and adjacent counties in New Mexico, Oklahoma and Arkansas are given preference over equally qualified out-of-state applicants. Applicants must have completed at least two years of pre-professional studies at any regionally accredited U.S. college or university and must present official transcripts of having completed 68 hours of designated courses with a grade of C or better. Applicants must complete the application form, request WKUHH OHW WHUV RI UHIH UHQFH IURP LQG LYLGLG JORJ, morals, ethics, academics, and life experiences. Applicants are provided the opportunity, through the consideration of personal statements, recommendations, and essays to demonstrate their potential

***Humanities/Social Sciences: Courses may be selected from any mix of Anthropology, Communications (excluding Public Speaking, which is a prerequisite), Economics (excluding Economics prerequisite), Ethnic Studies, Family Living/Human Development, Geography, History, Journalism, Philosophy, Political Science (Government), Psychology, and Sociology. Performing and Fine Arts (including Music, Physical Education, and Foreign Languages), Computer Sciences, or similar courses will not meet this requirement. Prerequisite groupings for Humanities/Social Sciences, e.g., 6 hours of history and 6 hours of government, are not required by the TTUHSC School of Pharmacy. Advanced Placement (AP), CLEP, and Dual Credit are accepted if documented on your transcript from an accredited U.S. college or university.

PCAT (Pharmacy College Admission Test)

The Pharmacy College Admission Test, also known as the PCAT, is required of all applicants who apply for admission to the School of Pharmacy. It is highly recommended that you take the September test when applying to TTUHSC School of Pharmacy. All applicants who are interested in taking the PCAT should go to the link on our website for further information. The link to the website contains most of the information in their Candidate Information Booklet. This website contains the PCAT online application. <http://www.pearsonvue.com/pcat/>

Early Decision and Letter of Intent (LOI)

TTUHSC School of Pharmacy offers Early Decision Program (EDP) status through PharmCAS. The Early Decision program is a binding option for applicants who have decided that a particular pharmacy degree program is their first choice and that they will enroll if accepted. As an EDP applicant, you can apply to only one pharmacy degree program. The EDP application deadline is the Tuesday following Labor Day. In addition to completing the PharmCAS application, you must arrange for PharmCAS to receive all of your official transcripts and fee by the EDP deadline. You must also complete the Merlin supplemental application and pay the corresponding application fee by the EDP deadline.

The Letter of Intent (LOI) program allows qualified prospective students to have the PCAT requirement waived. Applicants who meet the following criteria may apply for the Letter of Intent program:

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- Courses may be taken at a community college or a university.
- ◁ Each candidate must remain in good academic and disciplinary standing at their school.
- ◁ The candidate who wishes to apply via a Letter of Intent must apply for and successfully complete Early Admission interview process which means:
 - The accepted candidate cannot apply to other pharmacy schools and must apply to TTUHSC School of Pharmacy through the PharmCAS Early Decision Program (EDP).
 - The candidate who wishes to qualify for this guarantee must submit both the primary and secondary applications to TTUHSC School of Pharmacy by early decision deadline at the beginning of the fall semester of the year prior to matriculation into TTUHSC School of Pharmacy. Check the TTUHSC School of Pharmacy website for specific dates.
- ◁ **The accepted candidate under this Letter of Intent shall have the PCAT requirement waived.** A student enrolling in the Pharm.D./MBA Program will be required to take the PCAT or GMAT.

Review of Application and Admissions Criteria

All of your application materials are important and will be reviewed by the Admissions Committee as part of the overall process. Once you have completed the PharmCAS application online, completed the supplemental application, paid your application fee, submitted your transcripts, given your references their forms to complete, and taken the PCAT with your grades having been received by the Pharmacy College Application Service (PharmCAS), your application will go through a 6-step review process.

Step 1 – Staff Review

The admissions staff will review your completed application to determine whether all documents are complete and whether you meet the minimum admissions requirements. We will compute your adjusted pre-pharmacy GPA, using the last grade you received in your courses, and we will also determine that none of the pre-pharmacy courses were more than 7 years prior to the date you would start classes. If all these checks are cleared, the status of your application will be posted online and verify that your application is complete. We recommend you first review your PharmCAS status since your records will be updated there.

Step 2 – Admissions Committee Review

The Admissions Committee is composed of a cross section of faculty members and advanced students who review each application to determine which applicants will be invited to one of the SOP campus locations for an interview. To select those to interview, we successfully completing the curriculum (4 years of pharmacy studies with a composite GPA above 75% and no course failures) by a regression formula that includes your pre-pharmacy GPA (as computed on your application) and the Composite, Biology, Chemistry, and Reading scores on your 3 & \$ 7 7 KURXJK VWDWLVWLFDO DQDO\VLV RI RXU SUHYLRXV V WKDW WKHVH HOHPHQWV DUH KLJKO\ SUHG\FWL\OHUHQ. On the probability are computed, we then invite for an interview those with the highest probability of being academically successful.

The academic rigor of the program is significant, and every student must be able to handle the

You will participate in several different assessments of your abilities. You cannot really prepare anything, so just be relaxed and do your best on everything you are asked to do.

The interview will start with a welcome and general directions for the day. It is not an assessment, simply a time to get to know you and for you to get to know the other applicants who will be with you for the day. Your performance in other activities during the day will be assessed to determine an overall Interview Score.

- ◁ As a pharmacist, you will be required to work effectively with a team of physicians, nurses, and other pharmacists to solve patient and operational problems. To allow us to determine your basic teaming skills, you will be in a group of 5-6 other interviewees and asked to group problem solve a potential pharmacy problem. You do not need to know anything about pharmacy beyond what you have learned in your pre-pharmacy courses; we are most interested

completion of the PCAT do not have to be completed prior to submitting and finalizing an application. However, these must be completed prior to PDWULFXODWLRQ \$notDFKHORU UHTXLUHG 5HIHU WR ³,PSRUWDQW 'DWHV DQG 'HDGOLQHV' R completion of prerequisites and applications. The following admission documents must be submitted to the School of Pharmacy by the required deadline for students to be eligible for fall admissions:

1. Completed Online PharmCAS Application and online Supplemental Application
2. Pharmacy Experience Essay
3. Official Transcript(s) documenting the completed pre-pharmacy and general education UHTXLUHPHQWV ZLWK D JUDGH RI ³ & ' Transcripts are WHU VHQW required for all college courses taken, regardless of grade or part of the pre-pharmacy requirement. Official transcript(s) documenting prerequisites that are completed after the deadline date should be submitted immediately upon completion of the course and received within two weeks after the end of the semester but no later than July 31. Students who do not submit transcripts of all college courses taken are subject to disenrollment when discovered at a later date.
4. A Supplemental Application Fee of \$100, nonrefundable. Applications will not be processed without this fee. The fee is waived for employees of TTUHSC on at least a 9-month appointment, their spouses, and dependent children under age 25.
5. Three Letters of Recommendation electronically submitted to PharmCAS
6. Pharmacy College Admissions Test (PCAT) scores or proof that the test will be taken prior to enrollment in the school and preferably by the September test date
7. Completed and clear Criminal Background Screen
8. Immunizations and CPR Certification

The pharmacy experience essay and the reference letters are used to evaluate the overall qualifications of the candidate. The School of Pharmacy application is an online document that can be found on our web site at <http://www.ttuhs.edu/sop/>. Please go to our website for the online

Hand, Finger, Eye Manipulations – Required to Compound Medications

- ◁ Accurately measure liquids with a syringe
 - ◁ Accurately measure liquids and powders with typical measuring devices required by Texas State Board of Pharmacy regulations to be standard compounding equipment in a pharmacy
- ◁ Mix liquids and powders in a mortar and pestle

Ambulate – Required to Monitor Patients

- ◁ Move within and among patient care areas minimally with the assistance of a wheel chair and/or personal assistant

Foreign Student Information

As an international applicant, you are also required to complete an International Student Application. This document is available on our website. Download the word document for Admission to the Texas Tech University Health Sciences Center School of Pharmacy in addition to completing the online application for the School of Pharmacy. You will find a Checklist of Documents Required that you can print to help guide you through the process. Please send all application materials and fees to the address listed on the applications. The deadline for the International Student Application and the online application for foreign students is November 1. A foreign transcript course by course evaluation is required for any course being considered as a prerequisite.

The School of Pharmacy accepts applications only for the fall semester. Before an application can be considered, you must have the Pharmacy College Admission Test (PCAT) results and TOEFL scores reported to us. The PCAT booklet explains procedures that must be followed by foreign students to obtain testing. Applicants who have demonstrated significant achievement through PCAT scores and grade point average and who will complete both the pre-pharmacy and general education requirements may receive an admission interview. The purpose of the interview is to give you an opportunity to personally present your unique qualifications and see if our program will meet your needs.

answer the questions on the TB Questionnaire, which can be found at this link under Resources and Links: <http://www.ttuhschool.edu/sop/academicinfo/>.

◁ **Meningococcal--**

Students may be placed on academic probation for one of the following reasons:

- ◁ Course failure
 - Each instance in which a student completes a course with a grade less than 70%, regardless of semester in which the failure occurred. Based on the number of course failures or in combination with one of the reasons below, a student may advance more than one level of probation even in a single semester.
- ◁ Academic or professional misconduct
- ◁ Failure to achieve the minimum standard on the PCOA examination
 - The PCOA minimum requirement applies only to the most recent administration of the exam. In some specific circumstances improved PCOA performance in a subsequent year can ameliorate academic probation level associated with previous poor PCOA performance. See SOP OP: 77.P.26 for specific circumstances.

(DFK VLQJOH VWULNH RU FRPELQDWLRQ RI VWULNHV GHWHUPLQHG) described below.

student will be placed on first probation. If the student is already on probation, then the failure will result in student dismissal from the school. A second course failure resulting from sanctions due to academic or professional misconduct, regardless of semester, may result in student dismissal from the school.

Honor Council

The purpose of the Texas Tech Health Sciences Center School of Pharmacy Honor Council is to serve as student and faculty representatives who foster and uphold the School of Pharmacy Code of Professional and Academic Conduct. The Honor Council also serves to promote integrity as well as develop a culture of honesty and student accountability within the school and their respective classes. The Honor Council will convene and provide rulings over student violations of the Code of Professional and Academic Conduct and to promote integrity and accountability. The Honor Council will provide recommended sanctions when a rules violation has been committed and submit summary reports directly to the Dean of the School of Pharmacy as well as report back to their classes.

http://www.ttuhsoc.edu/sop/administration/policies/documents/SOP_OP_77.P.27_School_of_Pharmacy_Honor_Council.pdf

Campus Assignment Policy

To access the SO 3 ¶ V S R O L F \ R Q F D P S X V H U C H D Q W V W J Q P M K Q H W 6 F S K R R D ¶ V Z H
<http://www.ttuhsoc.edu/sop/current/students/PolicyonCampusAssignment.pdf>

Withdrawal Policy (from courses)

Semester-long Courses: In order to be assured of an official withdrawal from a professional school course, the student must have completed and submitted a course withdrawal request to the Office of Student Services before the beginning of the 12th day of the term.

8-week Courses: In order to be assured of an official withdrawal from a professional school 8-week course, the student must have completed and submitted a course withdrawal request to the Office of Student Services before the beginning of the 6th weekday following the first day of class.

Rotations: In order to be assured of an official withdrawal from a professional school rotation, the student must have completed and submitted a course withdrawal request to the Office of Student Services before the end of the 4th weekday following the first day of the rotation.

6-week Courses: In order to be assured of an official withdrawal from a professional school 6-week course, the student must have completed and submitted a course withdrawal request to the Office of Student Services before the end of the 4th weekday following the first day of class.

4-week Courses: In order to be assured of an official withdrawal from a professional school 4-week course, the student must have completed and submitted a course withdrawal request to the Office of Student Services before the end of the 3rd weekday following the first day of class.

2-week Courses: In order to be assured of an official withdrawal from a professional school 2-week course, the student must have completed and submitted a course withdrawal request to the Office of Student Services before the end of the 2nd weekday following the first day of class.

Attendance

Regular attendance is necessary for satisfactory achievement. Therefore, it is the responsibility of the student to attend class in accordance with the requirements of the course as established by the faculty of Texas Tech University Health Sciences Center School of Pharmacy.

Computer Literacy

Pharmacy is an information intensive profession and its practice relies heavily on tools such as the computer. Listed below are the minimal computing skills required while in the School of Pharmacy:

- < loading and running an application software package such as word processing;
- < typing a document into a word processing program;
- < saving and printing a document;
- < navigating the internet (e.g., email, accessing web pages)

Academic Support Services

You are encouraged to seek assistance from the faculty. This assistance is free and faculty are a valuable resource. In addition, the Office of Student Services can be contacted by students demonstrating any indication of academic difficulty to explore possible areas of appropriate counseling or referral for resolution. Academic difficulty resulting from personal problems may be resolved through a variety of available resources, including professional counseling services provided as part of student health services.

Curricular Competencies and Assessment

The faculty has identified the set of competencies that you must possess to graduate with the Doctor of Pharmacy degree. Overall curricular competencies are further defined as to level of mastery expected upon the completion of each course within the curriculum.

ensure that each candidate is equipped with the basic drug knowledge to succeed in the fourth year of the program, all candidates enrolled within the third year of the academic program (P3 candidate) will be assessed for basic drug knowledge. This High Risk Drug Knowledge Assessment (HRDKA) will be administered each year, typically early in the Spring semester. Each P3 candidate must provide proof of drug knowledge competency through achievement of 75% or greater score upon the HRDKA. P3

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Pharmacy Practice Experiences (P4 clerkships). The cost of the remediation may be borne by the
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3	PHAR 2352 Pharmacotherapy: Cardiovascular
3	PHAR 3361 Case Studies I
2	PHAR 3240 Patient Assessment (with lab)
1	PHAR

semesters in the first professional year. Credit will be awarded in the SPRING semester. Requirements: Texas State Board of Pharmacy Intern-Trainee Licensure. Syllabus available.
Levels: Pharmacy-Doctoral, First year

PHAR 1220 – FOUNDATIONS IN PRACTICE OF PHARMACY (2:0:1 F, IVC)

Develop foundational skills and behaviors essential for success in the curriculum and the

PHAR 1461 – PHARMACY FORMULATIONS AND COMPOUNDING WITH LAB (4:4:1, F)

This course discusses compounding, dispensing, and patient counseling for various pharmaceutical

regulatory issues (USP 797 & NIOSH), parental calculations and quality assurance and documentation. This course is designed to culminate in the student being proficient in compounding of sterile products. 16 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Second year

PHAR 3240 - PATIENT ASSESSMENT (2:1:3 F)

Identifying the role of genetics in patient response to therapeutic agents, and possible means to improve the efficacy and safety of pharmacotherapy. 8 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Second year

PHAR 2231 - PRACTICE MANAGEMENT – LAW (2:4:0 F, IVC)

The study of federal and Texas statutes and rules, which regulate the practice of pharmacy and drug distribution. 8 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Second year

PHAR 4233 - PRACTICE MANAGEMENT - FINANCIAL MANAGEMENT (2:4:0 F, IVC)

Financial management concepts for pharmacy practice in all environments. 8 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Second year

PHAR 3233 - LEADERSHIP AND ETHICS IN MANAGEMENT (2:4:0 F, IVC)

Leadership and ethical principles as applied to management in all pharmacy environments. 8 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Second year

the management of patients in both acute and chronic care in a variety of health-system contexts. As the fifth course in this series, the therapeutic areas of focus are Neurosensory and Psychiatry. 16-week course. Syllabus available.

Levels: Pharmacy-Doctoral, Third year Fall

Co-requisite: PHAR 3250

Pre-requisites: PHAR 1220, PHAR 1233, PHAR 1240, PHAR 1431, PHAR 1441, PHAR 1460

PHAR 3406 – INTEGRATED THERAPEUTICS AND PRACTICE VI (4:4:0 F, IVC)

This series highlights the therapeutic management of common disease states and clinical problems. Organized by organ system and integrating foundational sciences with clinical care, topic coverage spans pathophysiology, epidemiology, and clinical presentation in men and women across the lifespan and demonstrates how the chemistry and pharmacology of common therapeutic agents are applied to the management of patients in both acute and chronic care in a variety of health-system contexts. As the sixth course in this series, the organ systems and therapeutic areas of focus are the Gastrointestinal and Hepatic systems, as well as obesity, nutrition, and wellness.

16-week course. Syllabus available.

Levels: Pharmacy-Doctoral, Third year Fall

Co-requisite: PHAR 3250

Pre-Requisite – PHAR 1220, PHAR 1233, PHAR 1240, PHAR 1431, PHAR 1441

PHAR 3219 – INSTITUTIONAL/COMMUNITY PHARMACY OPERATIONS (3:0:1 F, IVC)

This course focuses upon the skills required to manage the operational aspects of community and institutional pharmacies. Students will learn skills associated with the expanded focus on drug therapies, quality control, cost containment, procurement of equipment and design to facilitate the workflow of the pharmacy, and other skills necessary to guarantee the efficient and effective operation of the institutional and community pharmacies. Additional topics such as continuity of care will be discussed.

16-week course. Syllabus available.

Levels: Pharmacy-Doctoral, Third year Spring

Co-requisite: PHAR 3251

PHAR 3251 – CLINICAL CORRELATIONS 6 (2:0:1 F)

Practical application of concepts in science and the practice of pharmacy within an integrated, applied, small-group learning environment. Emphasizes the relationships between therapeutics, medication safety, pharmacy operations. Key foundational concepts in science and the practice of pharmacy are also reinforced in the context of advanced scenarios.

Co-requisites: PHAR 3407, 3420, 3219

PHAR 3407 – INTEGRATED THERAPEUTICS AND PRACTICE VII (4:4:0 F, IVC)

This series highlights the therapeutic management of common disease states and clinical problems. Organized by organ system and integrating foundational sciences with clinical care, topic coverage spans pathophysiology, epidemiology, and clinical presentation in men and women across the lifespan and demonstrates how the chemistry and pharmacology of common therapeutic agents are applied to the management of patients in both acute and chronic care in a variety of health-system contexts. As the seventh course in this series, the organ systems and therapeutic areas of focus are Oncology and Hematology, as well as pharmacogenomics, pain, palliative and end of life care.

16-week course. Syllabus available.

Levels: Pharmacy-Doctoral, Third year Spring

Co-requisite: PHAR 3251

PHAR 4206 - VETERINARIAN PHARMACY (2:5.3:0 F, IVC)

ELECTIVE COURSE. Study of the pharmacist's professional role regarding veterinarian products and medical devices common to veterinarian pharmacy practice, emphasis on diseases of animals and the effectiveness, safety, limitations and composition of therapeutic entities used in the treatment of animal diseases. 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral. Third year

PHAR 4211 - ADVANCED INFECTIOUS DISEASES (2:5.3:0 F, IVC)

ELECTIVE COURSE. In-depth, primary literature-

Levels: Pharmacy-Doctoral. Third year

PHAR 4226 - SPECIAL TOPICS (2:0:16 F)

ELECTIVE COURSE. Advanced studies in administrative, behavioral, clinical, or pharmaceutical sciences. May be taken for a total of 4 credit hours. Must take two courses. 6 week course.

Levels: Pharmacy-Doctoral.

actively involved with following the patients, interacting with health care professionals, and in presenting/researching various disease states/drug therapy that is specific to their given rotation (see core disease states). 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4656 - AMBULATORY CARE ROTATION (6:0:40 F)

REQUIRED P4 APPE. The Advanced Ambulatory Care Clerkship is designed to expose students to advanced topics within the ambulatory care practice setting. This clerkship is intended to build upon the core disease state knowledge learned in the pharmacotherapy sequence and introduce or expand upon topics either not covered or only briefly discussed by the respective pharmacotherapy course. This clerkship will focus on the assessment and outpatient management of core ambulatory care topics including (but not necessarily limited to) diabetes, hypertension, hyperlipidemia, anticoagulation, heart failure, and asthma/COPD. Students will review therapeutic management strategies, national clinical guidelines, and clinical trial data to make clinical decisions in both simple and complex patients. Members of the teaching team

supervision of preceptor). 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4668 - PEDIATRIC CAMP AND AMBULATORY CARE ROTATION (6:0:40 F)

ELECTIVE P4 APPE - offered based upon preceptor availability Pharmaceutical care opportunities in a pediatric summer camp environment. Each student will be responsible for the care of 6-8 children under the supervision of a licensed health-care professional. 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4667 - DISEASE STATE/FORMULARY MANAGEMENT ROTATION (6:0:40 F)

ELECTIVE P4 APPE - offered based upon preceptor availability Course will incorporate policy development, formulary management, and disease state management utilizing TDCJ healthcare facilities. 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4692 - PSYCHIATRY ROTATION (6:0:40 F)

ELECTIVE P4 APPE - offered based upon preceptor availability. Pharmaceutical care experiences with patients having psychiatric diseases. 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4669 - GEROPSYCHIATRY ROTATION (6:0:40 F)

ELECTIVE P4 APPE - offered based upon preceptor availability A formative clerkship to develop the clinical skills related to geriatric patients with psychiatric disorders. 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4699 - SPECIAL TOPICS ROTATION (6:0:40 F)

ELECTIVE P4 APPE - offered based upon preceptor availability. Student directed activities with special patient populations. 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4670 - SPECIAL TOPICS ROTATION II (6:0:40 F)

ELECTIVE P4 APPE - offered based upon preceptor availability Advanced pharmaceutical care experiences with pediatric patients. 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4671 - RESEARCH ROTATION I (6:0:40 F)

ELECTIVE P4 APPE - offered based upon preceptor availability Research experience in pharmaceutical sciences, social and administrative sciences, or pharmacy practice. 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4672 - RESEARCH ROTATION II (6:0:40 F)

ELECTIVE P4 APPE - offered based upon preceptor availability. Research experience in pharmaceutical sciences, social and administrative sciences, or pharmacy practice. 6 week course. Syllabus available.

PREREQ: PHAR 4671

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4271 - INTERMEDIATE COMMUNITY PHARMACY ROTATION (6:0:40 F)

ELECTIVE P4 APPE - offered based upon preceptor availability. Reinforce and build upon the basic knowledge and experience gained in rotations. The focus will be on integrating patient care activities with pharmacy operations, conducted in a chain or independent community pharmacy. 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4673 - ADVANCED COMMUNITY PHARMACY ROTATION (6:0:40 F)

ELECTIVE P4 APPE - offered based upon preceptor availability. Advanced pharmaceutical care experiences with community pharmacy patients. 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4674 - ADVANCED HOSPITAL PHARMACY ROTATION (6:0:40 F)

ELECTIVE P4 APPE - offered based upon preceptor availability. Pharmaceutical care experiences with institutionalized patients. 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4679 - PAIN MANAGEMENT ROTATION (6:0:40 F)

ELECTIVE P4 APPE - offered based upon preceptor availability. Pharmaceutical care experiences with an ambulatory patient population in need of chronic pain management. 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4680 - PALLIATIVE CARE ROTATION (6:0:40 F)

ELECTIVE P4 APPE - offered based upon preceptor availability. Pharmaceutical care experiences with palliative patients. 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4681 - RURAL PHARMACY PRACTICE ROTATION (6:0:40 F)

ELECTIVE P4 APPE - offered based upon preceptor availability. Pharmaceutical care experiences with ambulatory and/or institutionalized patients in a rural community. 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4682 - AMBULATORY CARE ROTATION (6:0:40 F)

ELECTIVE P4 APPE - offered based upon preceptor availability. Pharmaceutical care experiences with ambulatory patients. 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4683 - CARDIOLOGY ROTATION (6:0:40 F)

ELECTIVE P4 APPE - offered based upon preceptor availability. Pharmaceutical care experiences with patients with cardiovascular diseases. 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4684 - ADVANCED DRUG INFORMATION ROTATION (6:0:40 F)

ELECTIVE P4 APPE - offered based upon preceptor availability. Pharmaceutical care experiences in a drug information service. 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Fourth year

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4697 - POISON CENTER ROTATION (6:0:40 F)

ELECTIVE P4 APPE - offered based upon preceptor availability. Pharmaceutical care experiences with patients or caregivers in the poison control center. 6 week course. Syllabus available.

Levels: Pharmacy-Doctoral, Fourth year

PHAR 4698 - ADMINISTRATIVE PHARMACY PRACTICE ROTATION (6:0:40 F)

ELECTIVE P4 APPE -

Al-Ahmad, Abe

Pharmacy Practice

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Alvarez, Carlos, PharmD, MS, Adjunct Assistant Professor, PIC, Assistant Professor, Dallas; Pharm.D. (2004),

Craddock, Deetra, PharmD, Community Care Residency PGY1, Assistant Professor, Dallas; Pharm.D. (2001), Auburn University, Auburn, Alabama.

Duncan, Nakia, PharmD, Assistant Professor, Dallas; B.S. Biology (2006), Morgan State University; Pharm.D. (2010), Hampton University.

Duval, Courtney, PharmD, Assistant Professor, Dallas; Pharm.D. (2011), Texas Tech University Health Sciences Center, School of Pharmacy.

Edwards, Krystal, PharmD, FCCP, BCACP, BCPS, Associate Dean for Career Development, Associate Professor of Pharmacy Practice, Ambulatory Care, Dallas; B.S. Pharmacy, Medical University of South Carolina (1998); Pharm.D, Medical University of South Carolina (2000).

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Haase, Mark, PharmD, FCCP, BCPS, Division Head Pediatrics, Amarillo; B.S. Pharmacy (1996), University of Minnesota; Pharm.D. (1997), University of Minnesota

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Pass, Steven, PharmD, FCCM, FCCP, FASHP, BCPS, Professor, PGY2 Critical Care Residency Program Director, Vice Chair for Residency Programs, Dallas; Pharm.D. (1996), University of Kentucky, College of Pharmacy.

Payne, Kenna, PharmD, Assistant Professor, Amarillo; Pharm.D. (2005), Texas Tech University Health Sciences Center, School of Pharmacy.

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Schoen, Becky, PharmD, Assistant Professor, Dallas; Pharm.D, Purdue University.

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Shah, Sachin, PharmD, Professor, Associate Dean for Assessment and Accreditation; Advanced Hematology, Oncology Clinical Pharmacist, Dallas; Pharm.D. (2001), Texas Tech University Health Sciences Center, School of Pharmacy.

Sigler, Meredith, PharmD, Assistant Professor, Dallas; B.S. (2008), University of Oklahoma; Pharm.D. (2013), Texas Tech University Health Sciences Center, School of Pharmacy.

Simmons, David, Clinical Instructor, Amarillo; B.S. (1982), Pharmacy, Southwestern Oklahoma State University.

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Smith, Winter, PharmD, Associate Professor, Dallas; Pharm.D, University of Oklahoma, College of Pharmacy.

Tawwater, Chris, PharmD, PGY1/PGY2 Pharmacotherapy Residency Director, Adult Medicine and Critical Care Clinical Pharmacy SpecintSou 0 1 130.55 233.33 Tm0.2 g0.2 G[, P.2 GID 28BD 612 f*q0.00000948

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