



2011-2012

DOCTOR OF PHARMACY



The Jefferson Difference

THOMAS JEFFERSON UNIVERSITY, ONE OF THE NATION'S FIRST ACADEMIC HEALTH CENTERS, REDEFINES HEALTHCARE EDUCATION BY PREPARING STUDENTS TO BE MEMBERS OF TOMORROW'S INTEGRATED HEALTHCARE TEAM. JEFFERSON GRADUATES ARE RECOGNIZED THROUGHOUT THE COUNTRY AS LEADERS IN EDUCATION, RESEARCH, HEALTHCARE DELIVERY AND COMMUNITY SERVICE.

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A COMMUNITY OF LEARNERS

Today, Jefferson offers greater breadth and depth in healthcare education than ever before. The University encompasses Jefferson School of Health Professions (consisting of Departments of Bioscience Technologies, Couple and Family Therapy, General Studies, Occupational Therapy, Physical Therapy and Radiologic Sciences), Jefferson School of Nursing, Jefferson School of Pharmacy, Jefferson School of Population Health, Jefferson Medical College and Jefferson College of Graduate Studies.

INTERPROFESSIONAL FOCUS

Our specialization in healthcare education provides an uncommon opportunity: to learn in a dynamic, interprofessional setting. At Jefferson, programs are purposefully designed so that students learn independently as well as with and from one another. Those who take advantage of these connections find they are empowered to construct a foundation for the finest integrated care possible.

A bricks and mortar example of this collaborative spirit is the campus' high-tech Dorrance H. Hamilton Building. Inside, you may see future nurses, pharmacists, physicians, therapists and technologists partnering in an array of state-of-the art simulation centers or simply relaxing together in inviting common spaces.

REAL WORLD EXPERIENCE

Training together using the latest technologies in realistic environments gives students the knowledge, experience and confidence to be successful. In addition to getting comfortable working in various model environments on campus, Jefferson students have access to a variety of off-campus research and clinical education opportunities. There is a broad spectrum of opportunities available, whether through the Jefferson Health System, affiliation sites regionally, nationally and even around the world, or community service initiatives. Students report that this hands-on experience pays off when it comes to making informed career decisions and competing in the workplace. Employers know that Jefferson graduates have the skills to be effective members of any team.

To learn more about the Jefferson Difference, visit www.jefferson.edu.

Educating Collaborators

Through the more than 56,000 community pharmacies in the U.S., pharmacists are the most accessible healthcare professionals to the public.



Today's pharmacists:

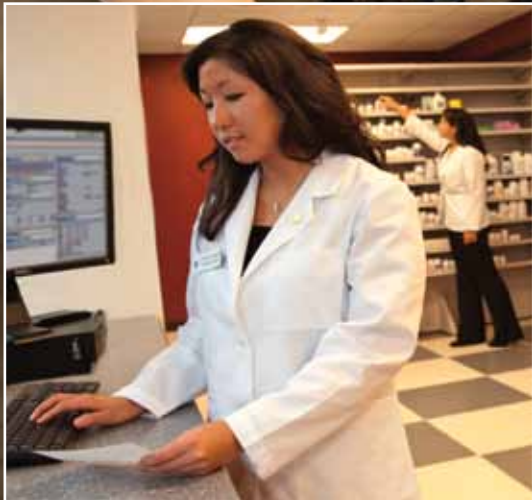
- collaborate with other healthcare providers to optimize medication therapy
- ensure the accuracy and integrity of all prescriptions
- educate patients regarding the appropriate use of their medications
- engage in research to develop new drugs and assess their effectiveness.

Collaboration is an important skill for pharmacists today. By learning to problem solve with peers from other disciplines, students develop a strong, positive understanding of each other's roles and are prepared to work as a team.

THE JEFFERSON SCHOOL OF PHARMACY

- offers students opportunities to learn side-by-side with medical, nursing and other healthcare students and to regularly work with pharmacists in real-life patient-care settings
- is closely affiliated with Thomas Jefferson University Hospital which, for decades, has been widely regarded as having one of the most outstanding hospital pharmacies in the country.

Students engage in classroom discussion and learn to integrate the basic, clinical and administrative sciences. The curriculum is designed to foster collaboration with other healthcare professionals. Students learn how to ensure that all patients receive safe and effective drug therapy and understand how pharmacists can influence the healthcare system and positively impact public health.



A Career for You in Pharmacy

The overall rapid growth in the healthcare field, the discovery of many new complex drug therapies and the increase in the elderly population have dramatically increased the need for well-trained pharmacists.



TOMORROW'S PHARMACISTS CAN CHOOSE FROM A WIDE ARRAY OF WORK ENVIRONMENTS RANGING FROM COMMUNITY PHARMACIES TO HOSPITALS TO PHARMACEUTICAL AND BIOTECHNOLOGY COMPANIES.

PRACTICE IN A VARIETY OF SETTINGS

Students in the Jefferson School of Pharmacy develop the knowledge and expertise to practice in a wide range of pharmacy settings such as:

- community pharmacies
- acute care and specialty hospitals and health systems
- outpatient clinics
- long-term care facilities
- pharmaceutical industry
- medical marketing, advertising and publishing companies.

Post-graduate training is widely available for pharmacists who aspire to leadership positions such as managers or directors of pharmacies and for those who want to specialize in caring for patients with specific healthcare needs such as children, the elderly, or individuals with heart disease, cancer or other critical illnesses. In fact, Thomas Jefferson University Hospital has one of the most highly sought-after post-graduate residency training programs in the country.



The Doctor of Pharmacy Program

The 4-year PharmD program requires a minimum of 140 credits which include both classroom instruction and hands-on experiential learning (approximately 30% of the program).



CURRICULUM OVERVIEW

Modeled on the core curriculum developed by the Accreditation Council for Pharmaceutical Education (ACPE), the curriculum encourages collaborative learning among pharmacy students and interaction with students in other health professions.

To assist students' development into competent and successful professionals while creating the foundation for their life-long learning, the Doctor of Pharmacy curriculum includes active learning techniques; simulated patient care environments; online learning; problem-based learning and experiential education.

PREREQUISITES

A total of 68 semester hours or 106 quarter hours as specified below must be completed prior to matriculation. Applicants must successfully complete ALL course prerequisites by the start of the program.

	Semester Hours	Quarter Hours		Semester Hours	Quarter Hours
Anatomy and Physiology I ¹ w/ lab	4	6	Organic Chemistry I w/ lab	4	6
Anatomy and Physiology II ¹ w/ lab	4	6	Organic Chemistry II w/ lab	4	6
General Biology I w/ lab	4	6	Calculus	3	5
General Biology II w/ lab	4	6	Microbiology w/ lab	4	6
General Chemistry I w/ lab	4	6	English Composition	3	5
General Chemistry II w/ lab	4	6	Social Sciences ³	9	15
Physics I ² w/ lab	4	6	Humanities ⁴	9	15
Physics II ² w/ lab	4	6	TOTAL	68	106

¹ 8 CREDITS OF A&P I AND II OR 4 CREDITS OF HUMAN ANATOMY AND 4 CREDITS OF HUMAN PHYSIOLOGY. LABS MUST BE INCLUDED. ² ALGEBRA OR CALCULUS-BASED. ³ PSYCHOLOGY, SOCIOLOGY, ANTHROPOLOGY, POLITICAL SCIENCE, ECONOMICS, GEOGRAPHY, HISTORY. ⁴ LANGUAGES, LITERATURE, PHILOSOPHY, RELIGION, ARTS.

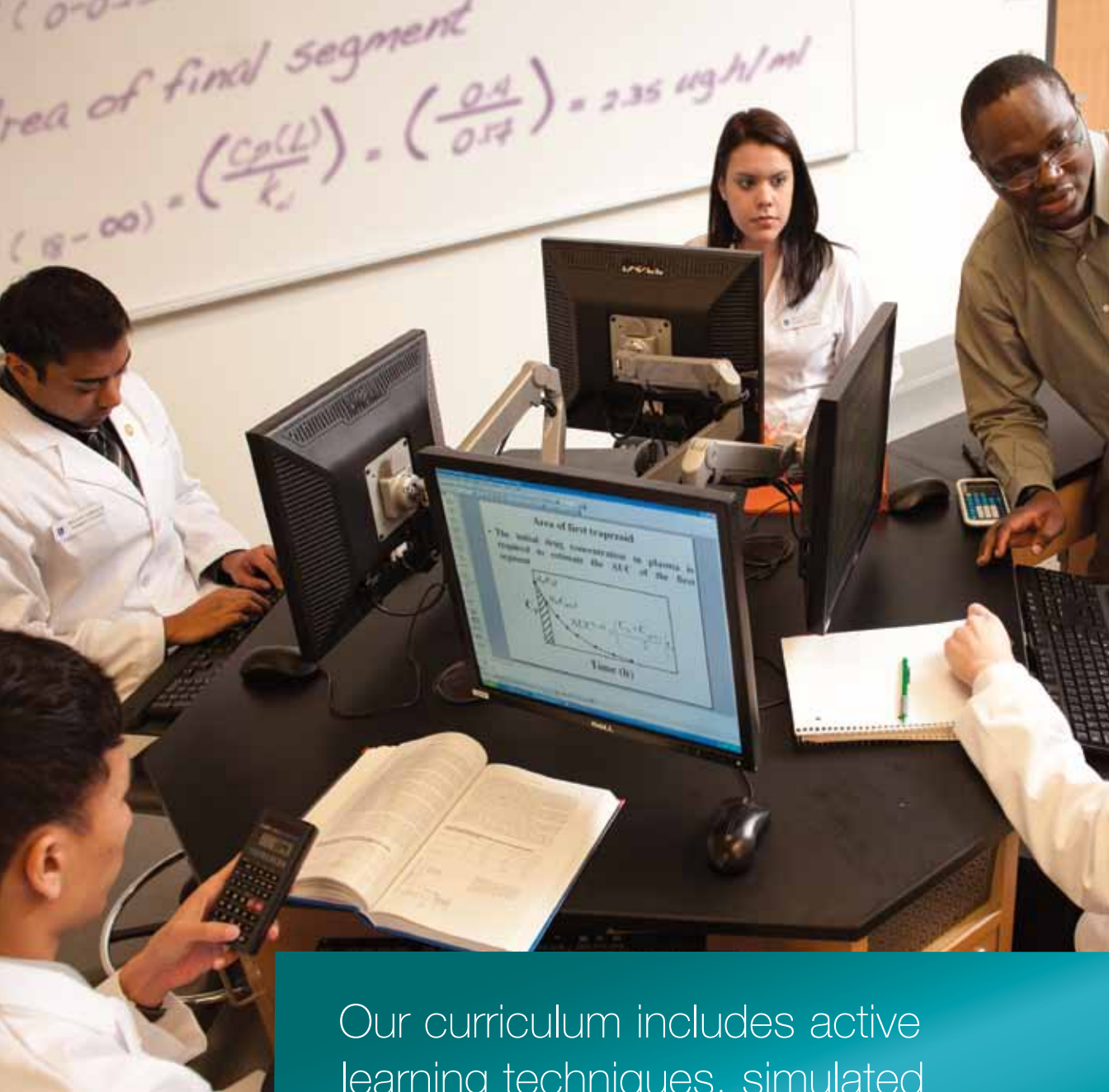
COURSE CLARIFICATION: ALL SCIENCE AND MATH COURSES MUST BE COMPLETED WITHIN FIVE YEARS OF APPLICATION TO JEFFERSON. COURSES MUST BE COMPLETED WITH A GRADE OF "C" OR ABOVE TO BE ELIGIBLE FOR TRANSFER. A GRADE OF "C-" OR BELOW WILL NOT BE ELIGIBLE FOR TRANSFER.

IN ADDITION TO MEETING ALL ACADEMIC REQUIREMENTS, STUDENTS MUST MEET ALL TECHNICAL STANDARDS FOR THE PROGRAM. REFER TO THE ONLINE JSP CATALOG FOR DETAILS: WWW.JEFFERSON.EDU/STUDENTLIFE/CAT.CFM OR 215-503-8890.



Jefferson's state of the art facilities enable me to learn along side other students in environments that mimic real pharmacy practice settings. For example, in the Sterile Prep Area, there are cameras mounted over your station. Faculty can observe from the adjacent control center to provide clear guidance when needed...while still giving you space to try it yourself and gain confidence."

Rebecca Buckler
Jefferson School of Pharmacy Class of 2013



Our curriculum includes active learning techniques, simulated patient care environments, online learning, problem-based learning, and experiential education.



Doctor of Pharmacy Degree Program

CURRICULUM

FIRST YEAR	CREDITS		
Fall semester		IPPE IV: Outpatient/ Ambulatory Care*	1
Biochemistry	3	Pharmacology II	3
Immunology	3	Pharmacy Practice IV	1
IPPE I: Healthcare Related Service Learning*	1	Pharmacy Practice Lab I	1
Healthcare Communications and Patient Counseling	2	Professional Elective(s)	3
Healthcare Delivery Systems	2	TOTAL	16
Pathophysiology I	3	THIRD YEAR	CREDITS
Pharmacy Practice I	1	Fall semester	
Preventive Healthcare and Self-Care Issues	2	Clinical Diagnosis/ Pharmacotherapy III and IV	6
TOTAL	17	IPPE V: Inpatient, Direct Patient Care*	2
Spring semester		Pharmacology III	3
Biostatistics	3	Pharmacy Grand Rounds	2
IPPE II: Community Pharmacy*	1	Pharmacy Practice Lab II	1
Medicinal Chemistry	2	Professional Elective(s)	3
Molecular and Cell Biology	3	TOTAL	17
Pathophysiology II	3	Spring semester	
Pharmacy Practice II	1	Clinical Diagnosis/ Pharmacotherapy V and VI	6
Physical Assessment and Clinical Skills	3	Integrated Practice Applications	1
TOTAL	16	IPPE VI: Elective*	2
SECOND YEAR	CREDITS	Pharmacoeconomics and Health Outcomes	3
Fall semester		Pharmacy Practice Lab III	1
Drug Information and Literature Evaluation	3	Professional Seminar I	2
IPPE III: Hospital/ Institutional Pharmacy*	1	Professional Elective(s)	3
Medication Safety	2	TOTAL	18
Pharmaceutics and Drug Delivery Systems	3	FOURTH YEAR	CREDITS
Pharmaceutics Lab	1	APPEs* (6 x 6 weeks each x 40 hours/ week = 1440 hours)	
Pharmacology I	3	4 Core:	
Pharmacy Management: Theory and Applications	3	• Community Pharmacy	
Pharmacy Practice III	1	• Hospital/Health System Pharmacy	
TOTAL	17	• Ambulatory Care	
Spring semester		• Inpatient/Acute Care	24
Clinical Diagnosis/ Pharmacotherapy I and II	4	2 Open:	
Biopharmaceutics and Principles of Clinical Pharmacokinetics	3	• 1 direct patient care	
		• 1 free	12
		Pharmacy Law	1
		Professional Seminar II	2
		TOTAL	39
		TOTAL CURRICULUM CREDITS	140

*WITHOUT REGARD TO SEMESTER
IPPE = INTRODUCTORY PHARMACY
PRACTICE EXPERIENCE
APPE = ADVANCED PHARMACY
PRACTICE EXPERIENCE

Experiential Learning

Experiential learning is a key component of the Jefferson School of Pharmacy curriculum. Introductory Pharmacy Practice Experiences (IPPE) start in the first semester and longitudinally correlate with the didactic curricular components.



YEARS 1 AND 2

3 hours/week each semester

- IPPE I-IV

YEAR 3

6 hours/week each semester

- IPPE V-VI

YEAR 4: FULL-TIME PRACTICE

During the final year, students participate in 6 full-time Advanced Pharmacy Practice Experiences (APPEs) in a variety of pharmacy settings.

Fourth Year (40 hours/week each semester)

- APPE I: Community Pharmacy
- APPE II: Hospital/Health System Pharmacy
- APPE III: Ambulatory Care
- APPE IV: Inpatient/Acute Care
- APPE V: Direct Patient Care
- APPE VI: Elective APPE (chosen according to student's interests)

Some experiential sites include:

- community service organizations focusing on traditionally underserved populations including the homeless, at-risk youths, seniors, and the visually impaired
- community pharmacies, including those providing specialized services, throughout the Delaware Valley
- hospital pharmacies, including large academic medical centers, smaller community hospitals and specialty hospitals, throughout the tri-state region
- ambulatory care settings focused on the pharmacist management of various chronic diseases such as diabetes, hypertension or cancer.

LICENSURE/CERTIFICATION

After graduates earn the Doctor of Pharmacy degree, they will be eligible to take state licensure examinations. Following licensure, they may practice in a wide range of patient care settings or pursue post-graduate training.



Having IPPEs right away gives you some real practical experience early on. That was great for me, since I had never worked in a pharmacy before. In my IPPE I have a chance to apply what I'm learning in class. For example, we learned about over-the-counter information one day, and then at my IPPE a patient asked a question and I knew how to answer it. That reinforced my understanding of the lesson."

Aundrea Williams
Jefferson School of Pharmacy Class of 2012

Healthcare-related service learning at the Associated Services for the Blind

Student Life

Whether on campus or the bustling streets of Center City, there is always something happening at Jefferson.



ON CAMPUS

Housing

The Department of Housing and Residence Life provides a “home away from home.” First-year students are guaranteed on-campus housing. Take a virtual tour at www.jefferson.edu/housing.

Green Space

Lubert Plaza, an inviting meeting space populated with fountains, trees, and a collection of larger-than-life sculptures, makes for a popular meeting area amid Jefferson’s urban campus.

The Wellness Center

Enjoy state-of-the-art cardio and weight training rooms, fitness classes, a new over-sized basketball gym and the pool. Or join one of many intramural sports teams. Membership is free for full-time students.

The Bookstore

Receive a 10% discount on textbooks or check out the store’s array of office supplies, gift items,

snacks, and Jefferson clothing. If we don’t have it in stock, we can usually order it for you – and often at a discount.

Library and Learning Resources Center

- 212,300 volumes in the life sciences, clinical medicine and patient education and inter-library loan
- specialized databases, more than 4,800 electronic journals in the sciences and 520 electronic books
- 24-hour access to the Library Café, with comfortable seating, computers and wireless network access
- access to videos, models and other non-print materials.

STUDENT PERKS

Commuter Services

Purchase discounted parking and transit passes.

Activities Office

- social, cultural and recreational programs on campus
- discounts to professional sporting events, amusement parks, museums, performing arts and cultural attractions
- more than 100 student organizations, from the African-American Student Society to the Water Polo Club. Check out www.jefferson.edu/activities/activities_guide.

Community Service

Make a difference with one of Jefferson’s community service organizations. Some students earn work study dollars while serving their community.



PHILADELPHIA: CULTURE AND COMMUNITY COMBINED

Culture

The Jefferson campus is flanked by some of the nation's great historical treasures: Independence Hall, the Liberty Bell and the National Constitution Center. On the other side, you will find the renowned Philadelphia Museum of Art, the prestigious Avenue of the Arts and Boathouse Row. Along the way: a plethora of boutiques and major retail stores. Nearby in Northern Liberties is the ultra-trendy Piazza at Schmidt's.

Camaraderie

Ready for some sports action? We have it all covered, from Phillies baseball and Eagles football to Flyers hockey and the 76ers basketball. The sports district is located on the Broad Street Line, which is easily accessible to students.

Cuisine

By now you have probably worked up an appetite and you will be well-served in this city. Philadelphia is exploding with flavors from around the world and up and down our own Restaurant Row. Try one of West Philadelphia's exotic Ethiopian restaurants or head to South Philly for a world-famous cheesesteak. If cutting-edge cuisine is your passion, Philadelphia is home to the restaurants of star chefs Bobby Flay, Georges Perrier, Stephen Starr, Jose Garces and Marc Vetri.



Photo by J. Smith for GPTMC

Applying to Jefferson

WHEN TO APPLY

Admission to JSP is available for the Fall semester and on a rolling basis until all seats are filled. All application materials must be received by PharmCAS by March 1, 2012.

Applicants are also required to complete a supplemental Jefferson application.

- The Jefferson Office of Admissions will send applicants an email with a link to the online application and a logon ID after JSP has received their completed application from PharmCAS.
- Jefferson will send applicants a second email with a PIN to access the supplemental application. Note that the supplemental application is not accessible from the public website and can only be completed via the link referenced above.

Applications will only be reviewed after the PharmCAS application, PCAT scores, letters of recommendation, transcripts, TOEFL scores (if applicable) and Jefferson Supplemental Online Application are received.

JSP will begin notifying applicants of admission decisions after October 31, 2011.

Applicants do not need to complete all prerequisites before application, but the majority of science prerequisite coursework should be completed before an admissions decision can be made. All prerequisites must be completed before entering the program. Applicants may also earn credits through standardized tests, including CLEP. Admission is competitive, as there are a limited number of seats in each class.

APPLY ONLINE

Step 1: Visit our page on the PharmCAS website, www.pharmcas.org/collegesschools/schooljeffersonpage.htm, for details about our program and application requirements.

Step 2: Visit www.pharmcas.org to complete an online application for admission through PharmCAS.

Step 3: Follow instructions to complete the supplemental application according to e-mail from Jefferson after completing your PharmCAS application.

APPLICATION REQUIREMENTS FOR ADMISSION

- completed PharmCAS and Jefferson applications [To be complete, the PharmCAS application must include results of the Pharmacy College Admission Test (PCAT). Although we do not have a minimum score requirement, scores in the 70th percentile are considered competitive.]
- PharmCAS application fee; \$25 supplemental Jefferson application fee
- official transcripts from all education institutions attended must be sent to PharmCAS. To be considered for admission, it is desirable that the applicant have a cumulative GPA and a math-science GPA of at least a 2.7 on a 4.0 scale
- 2 letters of recommendation
- demonstration of English Language Proficiency (TOEFL requirements), if applicable (visit www.jefferson.edu/admissions/TOEFL)



- 68 prerequisite credits (see page 6)

Jefferson School of Pharmacy will contact academically eligible applicants via e-mail to schedule a required interview (provided space is still available).

Note: In addition to meeting all academic requirements, students must meet all performance standards for the program. Refer to the online catalog for details, www.jefferson.edu/studentlife/cat.cfm.

Criminal background check and child abuse clearance required for accepted students; see notice on the inside back cover.

Admissions Questions?

Call toll-free 877-JEFF-247 (533-3247) or email JSPadmissions@jefferson.edu.

For up to date information on the admissions process please visit www.jefferson.edu/pharmacy.



Tuition & Financial Aid

TUITION AND FEES

To view 2011 – 2012 tuition and fees, please visit www.jefferson.edu/registrar/tuition.

Thomas Jefferson University reserves the right to amend any regulations, fees, conditions and courses described herein as circumstances may require without prior notice to persons who might thereby be affected.

FINANCIAL AID

Jefferson is committed to providing a high-quality education at an affordable price. More than three-quarters of our students receive some form of financial assistance through a combination of federal, state, institutional and private loans; scholarships; grants; and work-study programs.

The University Office of Financial Aid works closely with students to identify resources to help meet educational costs. To ensure that your financial aid funds are received by the tuition due date, financial aid applications should be completed by April 1.

If you have questions about financial aid opportunities or the application process, please contact the University Office of Student Financial Aid:
215-955-2867
financial.aid@jefferson.edu
www.jefferson.edu/financialaid



ACCREDITATION DISCLOSURE STATEMENT

Thomas Jefferson University is fully accredited by the Middle States Association of Colleges and Schools.

The Accreditation Council for Pharmacy Education (ACPE: <http://www.acpe-accredit.org>) accredits Doctor of Pharmacy programs offered by Colleges and Schools of Pharmacy in the United States and selected non-US sites. For a Doctor of Pharmacy program offered by a new College or School of Pharmacy, ACPE accreditation generally involves three steps: Precandidate status, Candidate status, and Full accreditation. Precandidate accreditation status denotes a developmental program, which is expected to mature in accord with stated plans and within a defined time period. Precandidate status is awarded to a new program of a College or School of Pharmacy that has not yet enrolled students in the professional program, and authorizes the school to admit its first class. Candidate accreditation status is awarded to a Doctor of Pharmacy program that has students enrolled, but has not yet had a graduating class. Full accreditation is awarded to a program that has met all ACPE standards for accreditation and has graduated its first class. Graduates of a class designated as having Candidate status have the same rights and privileges of those graduates from a fully accredited program. ACPE conveys its decisions to the various boards of pharmacy and makes recommendations in accord with its decisions. It should be noted, however, that decisions concerning eligibility for licensure by examination or reciprocity reside with the respective state boards of pharmacy in accordance with their state statutes and administrative rules.

The Doctor of Pharmacy program of the Thomas Jefferson University Jefferson School of Pharmacy was awarded Candidate accreditation status during the June 24–28, 2009, meeting of the ACPE Board of Directors, based upon an on-site evaluation conducted March 24–26, 2009, and discussion with University and School officials. If the program continues to develop as planned, Full accreditation of the Doctor of Pharmacy program will be considered by the Board following the graduation of students from the program.

IMPORTANT NOTICES

Notice of Equal Opportunity

Thomas Jefferson University is committed to providing equal educational and employment opportunities for all persons without regard to race, color, national or ethnic origin, marital status, religion,

sex, sexual orientation, gender identity, age, disability or veteran's status. The consideration of factors unrelated to a person's ability, qualifications and performance is inconsistent with this policy. Any person having inquiries or complaints concerning Thomas Jefferson University's compliance with Title VI, Title IX, the Age Discrimination Act of 1975, the Americans with Disabilities Act, or Section 504 of the Rehabilitation Act is directed to contact their Student Affairs Dean or Human Resources – Employee Relations, who have been designated by Thomas Jefferson University to coordinate the institution's efforts to comply with these laws. Any person may also contact the Assistant Secretary for Civil Rights, U.S. Department of Education, Washington, D.C. 20202, or the Director, U.S. Department of Education, Office for Civil Rights, Region Three, Philadelphia, Pennsylvania, regarding the University's compliance with the equal opportunity laws.

Required Background Check

Students who are offered admission to Jefferson are required to have a criminal background check and child abuse clearance. Some clinical sites may require students to be fingerprinted and/or drug tested. The Office of Admissions will provide you with the appropriate information to complete these requirements.

Clinical rotation and fieldwork sites that require a criminal background check, child abuse clearance and/or fingerprinting may deny a student's participation in the clinical experience, rotation or fieldwork because of a felony or misdemeanor conviction or a record of child abuse. Clinical sites may also deny participation in clinical experiences for other reasons, such as failure of a required drug test, or inability to produce an appropriate health clearance. As participation in clinical experiences, rotations or fieldwork is a required part of the curriculum and a requirement for graduation, denial of participation by a clinical site may result in delay of graduation or the inability to graduate from the program.

Regardless of whether or not a student graduates from Jefferson, individuals who have been convicted of a felony or misdemeanor may be denied certification or licensure as a health professional. Information regarding individual eligibility may be obtained from the appropriate credentialing bodies.

Disclaimer

All program information, accurate at time of publication, may be subject to change. Please check our website for the most current information: www.jefferson.edu/pharmacy.



Office of Admissions

130 South 9th St., Suite 100

Philadelphia, PA 19107

1-877-JEFF-247

215-503-8890

www.jefferson.edu/pharmacy



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