

# BUFFALOPHARMACY

*Here*  
IS HOW

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YOUR PATH TO SUCCESS BEGINS



University at Buffalo  
School of Pharmacy and  
Pharmaceutical Sciences



UB

W. NORTH ST

E. SACRAMENT ST

BUFFALO

# Why the University at Buffalo School of Pharmacy & Pharmaceutical Sciences?

## WE ARE TOP 25 IN THE UNITED STATES & #1 IN NEW YORK STATE

We are ranked #22 in the United States, #1 in New York State and are the flagship school of pharmacy in the State University of New York system.

## INTERNATIONALLY RENOWNED FACULTY

Our highly trained faculty rank among the very best in their fields, recognized nationally and internationally as outstanding teachers, world-class scholars and ground-breaking researchers. We are proud to have American Association for the Advancement of Science Fellows and SUNY and UB Distinguished Professors, as well as many others noted internationally and nationally for excellence in teaching, research and service.

## GO FAR IN YOUR FIELD, NOT DEEP INTO DEBT

UB is a superior value. You will receive a top-notch education with competitive tuition costs compared to private colleges or other universities of comparable quality. Add to that to over \$350,000 in competitive scholarships annually and traditional financial aid, and you have an education that's as affordable as it is possible.

## WE PUT YOUR CAREER ON THE FAST TRACK

Industry-leading employers recognize the University at Buffalo's commitment to academic excellence—our graduates boast diverse leadership roles in all practice areas of pharmacy and the pharmaceutical sciences. Couple this with our wide range of dual professional degrees and enhanced bachelors-to-professional degree opportunities and you have what you need to succeed. Our commitment to excellence and proven track record gives you the foundation to launch your career.

## COMPREHENSIVE CURRICULUM WITH A GLOBAL IMPACT

Specialized programs, wide-ranging national and international experiential education rotations, and interprofessional training will give you a highly competitive academic foundation. Our strong focus on service learning will empower you to apply your skills and knowledge to help the less fortunate in our city, our state, our nation and our world.

## PIONEERING RESEARCH TRANSFORMING HEALTH CARE

Our leading-edge research in the areas of drug discovery and drug delivery is noted worldwide. Significant strengths in protein therapeutics, genomics and systems pharmacology are the foundation for our high caliber clinical education programs; these strengths allow us to maintain top 20 ranking by the American Association of Colleges of Pharmacy for research funding, including total extramural funding and NIH grant support. This strong backing gives our faculty and students the best tools to solve emerging critical health challenges.



# Why Buffalo PharmD?

Since 1886, the University at Buffalo School of Pharmacy and Pharmaceutical Sciences has been one of the most established, innovative and progressive schools of pharmacy in the country. This long and proud history provides us with a steadfast foundation to educate the best and brightest pharmacists.

Our PharmD program is a four-year professional program that promotes excellence and integrity, preparing you to become part of an integrated health care team. We were one of the first pharmacy schools to offer pharmacogenomics and we are at the forefront of medication management of chronic diseases such as diabetes and hypertension.



## WORK IN:

Pharmacies, health care facilities, research labs, pharmaceutical industry, colleges and universities, community pharmacies, hospitals or physician practice sites, government agencies, pharmaceutical research companies, nursing homes, hospice and home care.

## INTERACT WITH:

Patients and health care professionals. Pharmacists can also choose to work with specific populations ranging from newborns to geriatrics, or focus on specialties such as cardiology and infectious disease.

## SKILLED IN:

Communication, math, science, patient care, ethics and empathy.

## DEGREE TYPES:

- PharmD
- PharmD/MBA
- PharmD/MPH
- PharmD/MS
- PharmD/PhD
- PharmD/JD
- BA/PharmD
- BS/PharmD

[\[pharmacy.buffalo.edu/pharmd\]](http://pharmacy.buffalo.edu/pharmd)

# Why Buffalo Pharmaceutical Sciences?

The University at Buffalo pioneered the founding principles of pharmaceutical sciences. We have upheld this tradition of excellence and international distinction for over 50 years.

The Department of Pharmaceutical Sciences at UB offers programs and research training in the clinical response to drug therapy. These subjects are examined at the molecular, genomic, biochemical, biological, and clinical levels through an interdisciplinary curriculum in the areas of pharmacokinetics, pharmacodynamics, pharmacometrics, pharmacogenomics and systems pharmacology.



## WORK IN:

The pharmaceutical industry, research labs, colleges and universities.

## INTERACT WITH:

Research scientists, industrial partners.

## SKILLED IN:

Math, science, lab techniques and problem solving.

## DEGREE TYPES:

- Undergraduate: BS
- Graduate: BS/MS, MS, PhD

[\[pharmacy.buffalo.edu/pharmsci\]](http://pharmacy.buffalo.edu/pharmsci)

# Degree Pathways & How to Apply

## DOCTOR OF PHARMACY (PharmD) DEGREE:

### PharmD program pathways:

#### Early Assurance Program: 2+4=6

Incoming University at Buffalo freshmen selecting the pharmacy major are admitted directly into the PharmD degree through our prestigious Early Assurance (EA) Program. This program gives talented freshmen the heightened advantage of securing a seat in our four-year PharmD curriculum after completing two years of prescribed undergraduate course work and an interview. There are no additional high school GPA or SAT/ACT requirements and EA students are exempt from the Pharmacy College Admission Test (PCAT).

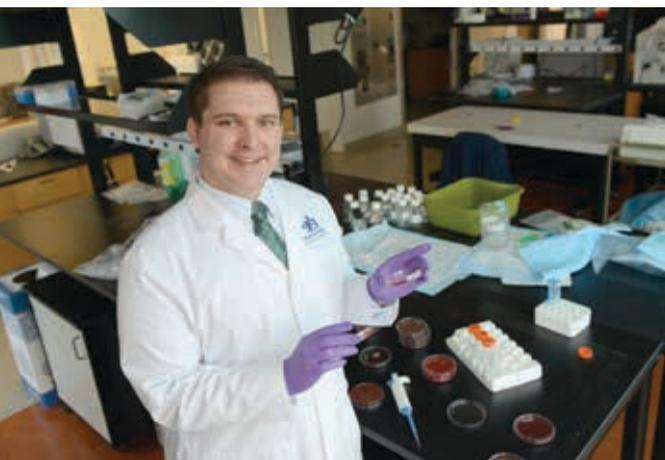
#### PharmCAS (Pharmacy College Application Service)

Transfers and students who do not complete Early Assurance may apply to the PharmD program via PharmCAS as a regular or early decision candidate. Students must complete all undergraduate prerequisite courses by the end of the summer semester prior to fall matriculation. Additionally, applicants must submit a PCAT score, letters of reference and a personal statement. Interview invitations are extended to candidates with a competitive application.



## ATTRIBUTES FOR DOCTOR OF PHARMACY APPLICANTS:

- Scholastic achievement
- Aptitude for health sciences
- Motivation towards pharmacy
- Communication skills
- Leadership
- Community service
- Health care or research experience
- Professionalism, integrity, empathy



## PHARMACEUTICAL SCIENCES DEGREES:

### Undergraduate (BS)

Interested students must first apply, and be accepted into, the University at Buffalo via the Undergraduate Admissions office. Students eligible for entry into the junior-year curriculum complete all prerequisite course and GPA requirements.

### Graduate (BS/MS, MS and PhD)

Students enrolled in the BS program in pharmaceutical sciences only may apply to the accelerated BS/MS. The traditional graduate programs (MS, PhD) require completion of a bachelor's degree in a science-related field with a competitive 3.0 or higher GPA, the Graduate Record Examination (GRE), two letters of recommendation, and personal statement; prior research experience is also considered.

## ATTRIBUTES FOR PHARMACEUTICAL SCIENCES APPLICANTS:

- Scholastic achievement
- Analytical and research skills
- Communication skills
- Strength in mathematics
- Favors hands-on work
- Aptitude for science

[\[pharmacy.buffalo.edu/apply\]](http://pharmacy.buffalo.edu/apply)

# Fast Track Your Degree

Our customized combination of curricular offerings, specialized programs, individualized faculty advisement and mentorship from leading alumni mentors will prepare you for optimum employment and post-graduate education.

## DUAL DEGREES

We offer a variety of dual degrees, which allow you to save time, money and increase your employment marketability by combining two interests into one program.

- **PharmD/MBA**  
Acquire the skills necessary to enter leadership positions in health sciences management
- **PharmD/MPH**  
Assume leadership positions in health departments at the local, state, national and international levels, as well as work in academia
- **PharmD/MS and PhD**  
Gain stellar research skills to work in academia, research institutes or federal and other regulatory agencies
- **PharmD/JD**  
Develop a unique skill set desired by employers in federal regulatory agencies, the pharmaceutical and biotechnology industries, private practice and beyond
- **BA/PharmD and BS/PharmD**  
Earn a 3+4 combined UB bachelor's degree and UB PharmD degree in just seven years



## POST-GRADUATE PREPARATION

Go beyond the core curriculum with specialized instruction in research, teaching and professional development that prepares you for post-graduate education.

### RESIDENCY TRAINING

- **Scholars Program**  
Receive mentoring and strategic guidance in the areas of clinical practice, scholarship and teaching

### RESEARCH FELLOWSHIP TRAINING

- **Clinical Research Program**  
Individualized research programs focused on exceptional, original clinical and translational research
- **Pharmaceutical Sciences Research Program**  
Explore clinical research methods combined with research rotations

### GRADUATE DEGREE IN PHARMACEUTICAL SCIENCES

- Take elective courses from the Pharmaceutical Sciences curriculum to prepare for an MS or PhD degree



[\[pharmacy.buffalo.edu/dual\]](http://pharmacy.buffalo.edu/dual)

# Expanding Opportunities through *Global Outreach*

Our many community-based initiatives give you the tools necessary to address practical global health concerns, promote culturally competent health care, and foster the development of servant leadership in diverse populations.

## CLINICAL EDUCATION:

**Meeting the health needs of diverse populations through student education and outreach**

### *UB International Pharmaceutical Students' Federation (IPSF)*

IPSF, as part of the American Pharmacists Association Academy of Student Pharmacists International Pharmaceutical Students' Federation, is a student-led organization focused on aiding underserved populations on the local, national and international levels. IPSF organizes international medical mission trips to locations such as Honduras and the Dominican Republic, as well as alternative spring break, national Habitat for Humanity trips, and supports many local community health clinics and non-profit outreach centers.

### *Buffalo Refugee Community: Sustainable Medication Literacy Program*

This community-driven outreach program assists refugees entering the Western New York area with medication management through culturally sensitive patient education materials. These materials give refugees from all over the globe a better understanding of how, when and why medications have been provided to them, resulting in increased compliance and improved health.

## CLINICAL RESEARCH INITIATIVES:

**Meeting the health needs of diverse populations through new ideas and approaches**

### *Zimbabwe Center of Excellence for Clinical Pharmacology and Pharmaceutical Sciences*

An international leader in sustainable initiatives for global health issues, this center for HIV/AIDS and HCV pharmacotherapy guides the transfers of clinical pharmacology and therapeutics to resource-limited countries across the globe. This work is done in partnership with the University of Zimbabwe.

### *Buffalo Jamaica Innovation Enterprise*

This unique center brings together leaders from UB, Buffalo, and various public and private organizations in Jamaica to implement research programs focusing on patient safety and infectious diseases. The center also actively promotes education and training through the Jamaica Global Infectious Diseases Research Training Program, a collaborative program supported by UB, the University of the West Indies and Ministry of Health, Jamaica.

[\[pharmacy.buffalo.edu/global\]](http://pharmacy.buffalo.edu/global)



ZIMBABWE | HAITI | JAMAICA | BELIZE | REFUGEE CENTERS

# Education through *Collaboration*

We believe strongly in the value of collaboration. Our unique focus on interprofessional health care, research and economic growth, combined with Western New York's strong health care systems, provides you with unparalleled, hands-on clinical education and training.

## UB Academic Health Center (AHC)

UB is a member of the Association of Academic Health Centers (AAHC), an elite group of national health professional schools that leads on issues concerning health science education. The goal? To transform interprofessional health care into an integrated multidisciplinary model that addresses global health-related challenges through interprofessional education (IPE) courses and seminars during the academic year.

UB's AHC is comprised of the Jacobs School of Medicine and Biomedical Sciences, School of Dental Medicine, School of Nursing, School of Pharmacy and Pharmaceutical Sciences, and School of Public Health and Health Professions.

## Simulation centers

Multiple campus centers provide you with unique simulated patient care activities to enhance your IPE experience. The facilities, which include flexible clinical rooms, pharmacies, consultation rooms and nursing stations, help to improve interdisciplinary collaboration, reduce health care errors and promote excellence in patient care.

## New York State Center of Excellence in Bioinformatics and Life Sciences (CBLS)

The CBLS is a research hub for scientists, a source of innovation for industry, and an economic engine for the Buffalo Niagara region. Under the guidance of renowned faculty, entrepreneurs and industry leaders, University at Buffalo students from across the disciplines conduct research and start-up incubators.

## Clinical and Translational Science Institute (CTSI)

The CTSI links clinical care and teaching with research and commercial application, *one of only a handful of such facilities in the nation*. It is the home for outstanding clinical and translational science and is the hub of the Buffalo Translational Consortium, providing advanced research tools, support, training, resources and coordination.

## Affiliated teaching hospitals and health partners

Our extensive list of health care partners gives you the opportunity to apply what you learn in the classroom and in the laboratory to real-world settings.



### LOCAL PARTNERS:

- Kaleida Health System
- Erie County Medical Center
- Roswell Park Cancer Institute



### NATIONAL PARTNERS:

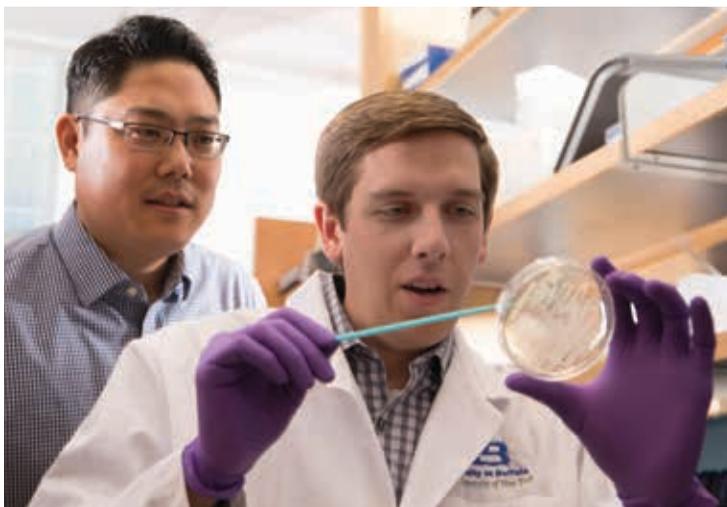
- National Institutes of Health
- St. Jude Children's Research Hospital
- Cleveland Clinic



### INTERNATIONAL PARTNERS:

- University of Zimbabwe
- Taipei Veterans General Hospital
- University of the West Indies, Jamaica

[\[pharmacy.buffalo.edu/collaboration\]](http://pharmacy.buffalo.edu/collaboration)



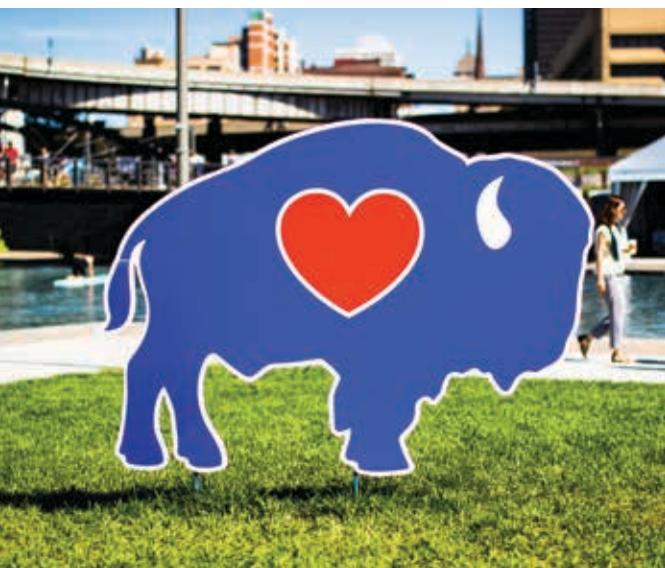
# University at Buffalo: New York State's Flagship Public University



## ABOUT THE UNIVERSITY AT BUFFALO

UB is nationally recognized as one of the country's top public universities and the most comprehensive in the State University of New York system. We are also proud to be a member of the prestigious Association of American Universities, in recognition of our strong academics and research.

Our diverse and distinguished community is set apart by a culture of inspired energy, resourceful thinking and pragmatic dreaming that enables us to positively affect others. With more than 1,300 acres across three unique campuses, there is always something new to explore.



## A CITY ON THE RISE

How do you combine the benefits of big-city living with the charm of a small-town heart? You choose Buffalo, NY, our historic city on the rise with one of the fastest-growing economies in the nation. That translates to real-life job and internship opportunities, as well as the unique chance to be part of something big.

Listed by *Travel + Leisure* magazine as America's favorite city and ranked one of the best cities in which to attend college, Buffalo is beloved by UB students for its fantastic culture and memorable people. And we're in the perfect location! By bus, train, car or air, you're less than 90 minutes from cities like New York, Toronto, D.C. and Philly.



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