

# Health Sciences: Pre-Pharmacy

Jefferson College of Health Professions

# Presentation Overview

- Program Description
- Plan of Study
- Outcomes
- Careers
- Professional Associations
- Student Profile
- Faculty Profile





# Dr. Wendy Krupnick

DEPARTMENT OF HEALTH SCIENCES, DIRECTOR



[Wendy.Krupnick@jefferson.edu](mailto:Wendy.Krupnick@jefferson.edu)



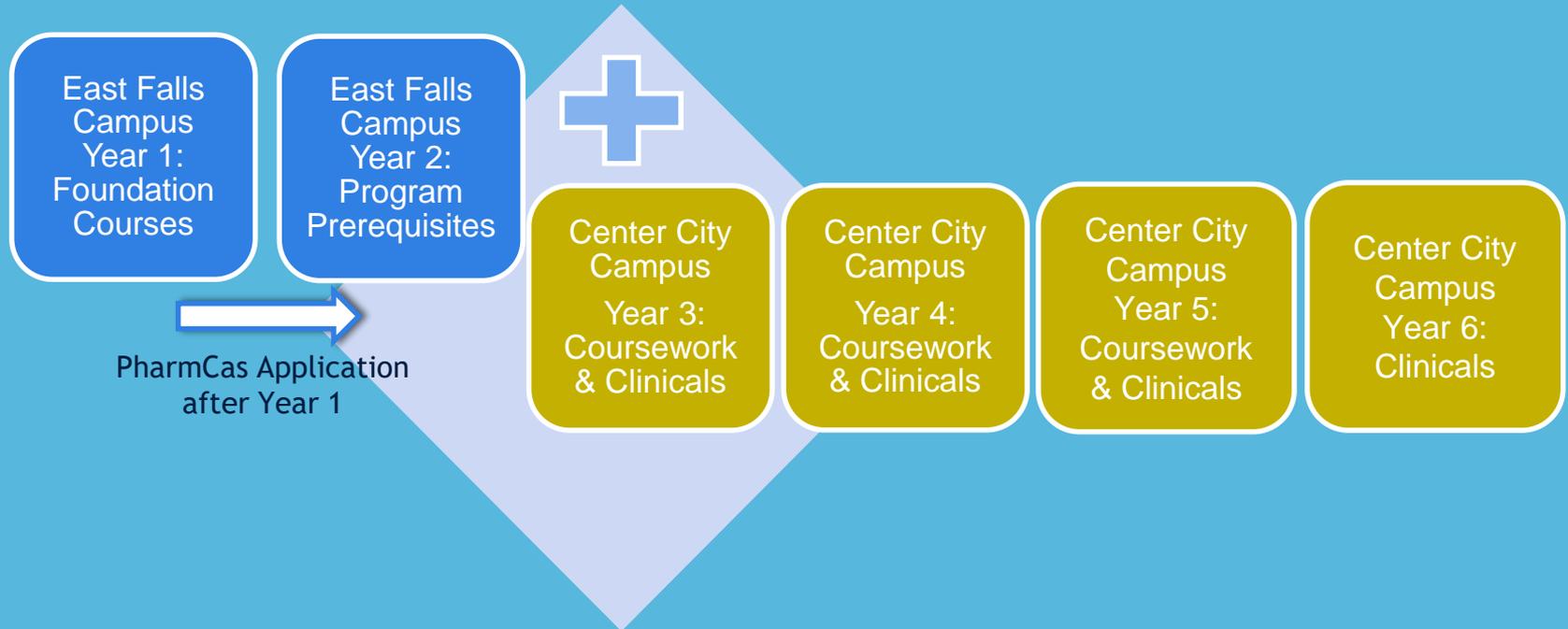
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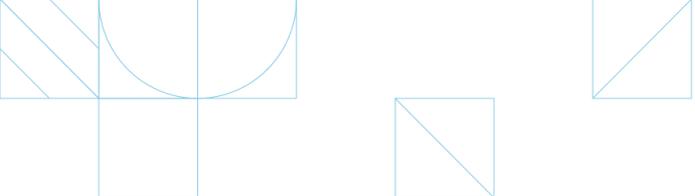


Jefferson

CREATE WHAT'S NEXT

# 2 + 4 Health Sciences: Pre-Pharmacy Pathway





# Health Sciences Pre-professional Pathway to Pharmacy Doctorate

Guaranteed *interview* in professional program (meet progression criteria)

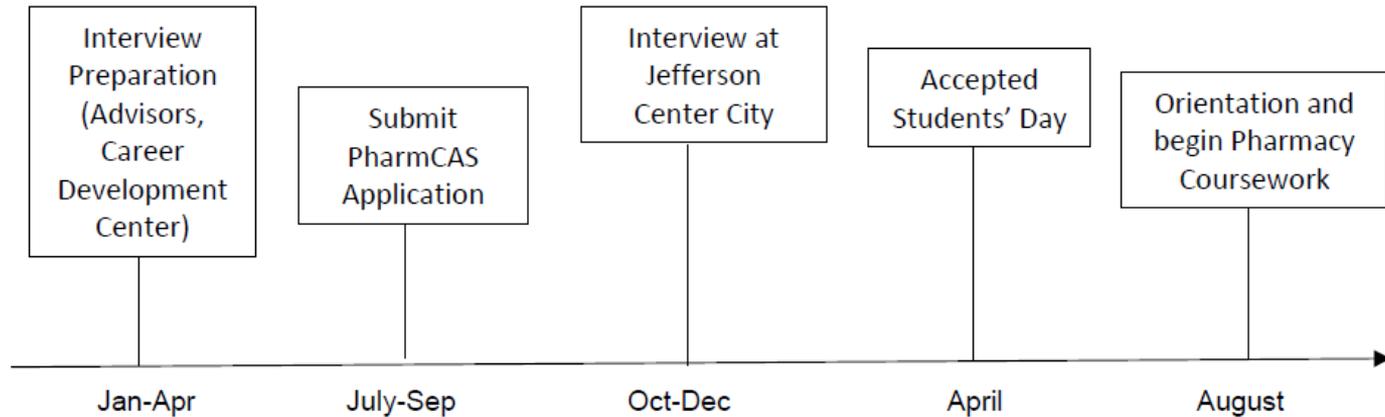
Health Sciences Pre-professional Pathway to Pharmacy Doctorate			
<b>Pre-professional Phase</b>	<b>Years 1-2</b>	<b>Pre-Pharmacy (2+)</b>	<b>Foundation Coursework</b> <ul style="list-style-type: none"><li>• Some Hallmarks courses</li><li>• Professional program prerequisites</li></ul>
<b>Professional Phase</b>	<b>Years 3-6</b>	<b>Pre-Pharmacy (+4 PharmD)</b>	<ul style="list-style-type: none"><li>• <b>Pharmacy courses &amp; rotations</b></li></ul>

# Health Sciences: Pre-Pharmacy Pathway

Years 1 and 2 (Year 3 begins Professional Coursework)	Credits
<b>Math &amp; Science Courses</b> Biology I & II, Anatomy & Physiology I & II, Chemistry I & II, Organic Chemistry I & II, Physics I & II, Microbiology <small>*All science courses include labs</small>	47
<b>Humanities</b> Writing, American Diversity, Global Diversity, Ethics	12
<b>Social Science</b> Intro to Psychology, American Studies, Global Citizenship	9
Free Elective	3
Total	72

# Health Sciences Pre-professional Pathway to Pharmacy Doctorate

Guaranteed **interview** in professional program (meet progression criteria)



GRADUATION RATE (avg)

# 95%

## FAST FACTS

- Multiple years with 100% pass rate for first time NAPLEX national licensure test takers
- On average 46% of graduates pursue residency training with a 75% match success rate
- State of the art facilities to simulate practice environments including “clean room” to make sterile drug products, model community pharmacy, and informatics center featuring high tech work-stations

## STUDENT RECOGNITION

### NATIONAL CHAMPION - ASHP CLINICAL SKILLS COMPETITION

A Barlow (JCP '19), B Barlow (JCP '19)

### US PUBLIC HEALTH SERVICE AWARD, EXCELLENCE IN PUBLIC HEALTH PHARMACY

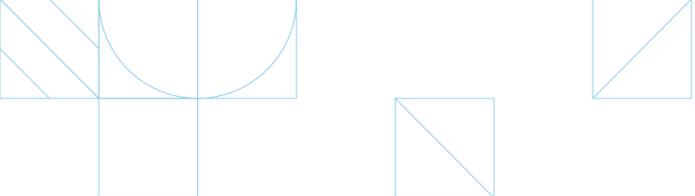
N Paulson (JCP '20), A Maister (JCP '18)

### ASHP STUDENT LEADERSHIP AWARD

J Fancher (JCP'17), D Lehmann (JCP'18)

## EMPLOYERS OF JEFFERSON GRADUATES

- Community Pharmacies
- Healthcare Systems (Inpatient, Outpatient services)
- Postgraduate training programs (residency, fellowships)
- Specialized practice areas (Specialty Pharmacy, Home Infusion)



# The Transformation of Pharmacist Roles

## THEN:

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- Interpretation of prescription including verification of dose
- Preparation
- Labeling and dispensing
- Inventory control and management including product selection
- Patient and consumer education

## NOW:

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- Therapeutic decisions
    - Medication Therapy Management
    - Integration of patient-specific factors
    - Balancing optimal outcomes with side effects and risks
  - Authorizations / Access
  - Patient Safety
  - Integrity of the medications
  - Patient education
  - Health care provider education
  - Population Health – immunizations, disease prevention
  - Consumer information
  - Pharmacoeconomics
  - Primary and specialty direct patient care
  - Drug diversion and addiction
  - Informatics
  - Research
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# Pharmacists

## OUTLOOK

**Community Pharmacists:** work in independent, retail, mass merchandise, or grocery stores

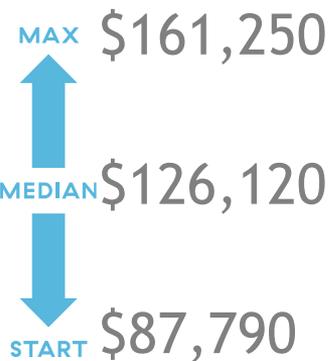
**Health System Pharmacists:** work in hospitals, clinics and other areas of the health-system; responsible for medication preparation, medication safety, formulary management, administrative functions

**Clinical Pharmacists:** work in hospitals, clinics and other healthcare settings in direct patient care (attend rounds, recommend medication dosage and timing, conduct medical tests and educate patients)

**Managed Care Pharmacists:** focus on formulary management to optimize outcomes frequently affiliated with insurance providers

**Pharmaceutical Industry Pharmacists:** design and conduct clinical trials and help to develop new drugs; may also contribute to safety regulations and ensure quality control for drugs

## SALARIES (BLS.2018)



## National Association of Boards of Pharmacy

- Licensure and inspections; examinations; accreditation activities

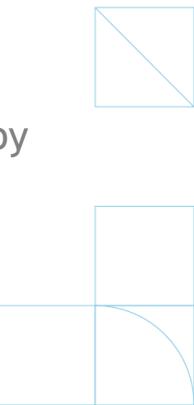
## American Society of Health System Pharmacists

- Represents pharmacists who serve as patient care providers in acute and ambulatory settings

## American Pharmacists Association

- Inspires, innovates, and creates opportunities for pharmacists worldwide to optimize medication use and health for all

## American College of Clinical Pharmacy

- International association of clinical pharmacists dedicated to optimizing drug therapy outcomes in patients
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# Cara Christopher

HAMMONTON, NJ

ACCEPTED INTO CLASS OF 2024, PharmD

*“I chose Jefferson for the wide variety of opportunities the new merger could give me. The diversity of majors allowed me to network with people outside of my major and to collaborate and be a part of something more. The beautiful campuses also made me instantly feel at home.”*

*“My advice would be to always keep a detailed planner to keep you on track with assignments! Also, make the most of the many opportunities Jefferson will provide you. You will make lifelong connections!”*



## Dr. Mary Hess, PharmD, FASHP, FCCM, FCCP, BCCCP

ASSOCIATE DEAN, STUDENT AFFAIRS  
PROFESSOR, PHARMACY PRACTICE

PharmD, St. Louis College of Pharmacy, Missouri  
B.S., Pharmacy, University of Missouri, Kansas City, MO

### Practice Area

Critical Care

### Professional Contributions

ASHP Critical Care Board Review Course, Faculty  
ASHP Joint Section & Forum Leadership Advisory Panel  
BPS Critical Care Advisory Committee  
ASHP PPMI Sections Committee, Chair  
ASHP Research Foundation, Critical Care Traineeship Program  
ACCP Clinical Practice Affairs, Chair  
Commission on Credentialing, Chair  
Greenville Technical College Pharmacy Technician, Advisory Board Member  
Pharmacy Practice Residency Program Director  
Critical Care Residency Program Director



**Jefferson**

Thomas Jefferson University