

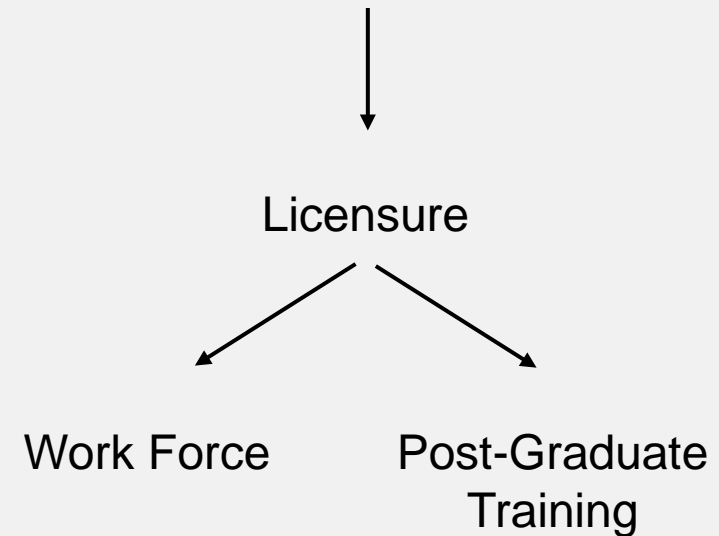
# **Transforming Pharmacy Education at Rutgers University**

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# Doctor of Pharmacy (Pharm.D.) Education



# Pillars of Rutgers Pharmacy Education



Teaching Working Group Goal: Improve the preparedness of students to clinically assess patients and design effective treatment plans.

# Project Approach & Goals

- ✓ Engage pharmacy practice and pharmacology faculty
- ✓ Survey preceptors
- ✓ School comparisons
- ✓ Accreditation
- ✓ Retention and advancement
- ✓ Assessment

|                            |
|----------------------------|
|                            |
|                            |
| <b>Physiology</b>          |
| <b>Pathophysiology</b>     |
| <b>Medicinal Chemistry</b> |
| <b>Pharmacology</b>        |
| <b>Therapeutics</b>        |

| Level of Preparedness for Rotations by Early APPE Students  | Avg | n  |
|---|-----|----|
| <b>Drug and Medical Knowledge</b>   |     |    |
| Develop, integrate, and apply knowledge   | 3.5 | 32 |
| Explain drug action   | 3.8 | 32 |
| <b>Medical Information</b>  |     |    |
| Collect and interpret evidence  | 3.7 | 32 |
| Evaluate the scientific literature  | 3.7 | 32 |
| <b>Patient Assessment and Evaluation</b>  |     |    |
| Solve therapeutic problems  | 3.3 | 32 |
| Provide patient-centered care   | 3.5 | 31 |
| Prioritize and formulate assessments and treatment recommendations  | 3.4 | 32 |
| Implement, monitor and adjust plans   | 3.4 | 31 |
| Document activities   | 3.9 | 30 |
| Design prevention, intervention, and educational strategies to improve health and wellness (eg. chronic disease management) | 3.6 | 30 |

# Didactic Education

## Integrated Pharmacotherapy Modules

- Team Teaching
- Flipped Classroom Content
- Methods for Retention
- Integrated Assessment Methods





# New Lecture Hall



# Integrated Skills Laboratory

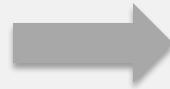
## Integrated Pharmacotherapy and Applications and Skills Series (iPass)

- ◆ Five semester laboratory course series
- ◆ Integrates drug information, communication, physical assessment, literature evaluation, evidence-based pharmacy
- ◆ Utilizes patient cases, simulations (mannequin), electronic health records, and objective-structured clinical examinations



# Coordinated Care of a Rutgers Family

Individual patient cases  
focusing on current issues



Family with increasingly more  
complicated and changing  
medical concerns



- ◆ Pharmacogenetics
- ◆ Cultural & Social
- ◆ Nutritional & Exercise
- ◆ Pregnancy
- ◆ Pediatrics & Geriatrics
- ◆ End-of-Life



# Timeline

2015

May 2015 – Strategic Planning

September 2015 – Teaching Working Group

2016

January 2016 – Interim Plans for Curriculum

Summer 2016 – iPASS Development, Survey, Admixture Course

2017

January 2017 – Approval of 1<sup>st</sup> Year Curriculum

Winter 2017 – Pharmacotherapy Development

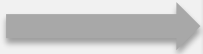
Summer 2017 – Syllabi for iPASS and Pharmacotherapy

September 2017 - Begin 1<sup>st</sup> Year Curriculum

2018

January 2018 – Faculty Approval of 2<sup>nd</sup> and 3<sup>rd</sup> Year Curriculum

Ongoing – Continued Assessment, Revision & Dissemination



# Benefits for Rutgers

- ◆ Capitalize on added and renovated space
- ◆ Advance Rutgers as a leader in comprehensive training of clinical pharmacists within the Big 10 and nationally
- ◆ Conduct scholarship on pharmacy teaching methods
- ◆ Ensure Rutgers exceed curricular standards for accreditation in 2021
- ◆ Facilitate joint training with other RBHS schools using new teaching space

Poster at the ASHP  
Mid-Year Meeting

