SCHOOL OF PHARMACY PROFESSIONAL ELECTIVES
FALL TERM 2191

DISCLAIMER: THIS LIST REPRESENTS THE COURSES WITHIN THE SCHOOL OF PHARMACY THAT ARE SCHEDULED IN THE FALL 2018 SEMESTER. FOR APPROVED ELECTIVES OUTSIDE OF THE SCHOOL OF PHARMACY, PLEASE SEARCH FOR CLASS AVAILABILITY IN PEOPLESOFT - https://psmobile.pitt.edu/app/catalog/classSearch

PHARM 3034  Topics in Translational Research  Credits: 1
CLASS NUMBER: 19346  Coordinators: Drs. P. Empey/Poloyac
Enrollment Cap: 10 students

This course is structured as a journal club focused on translational investigations and is being offered jointly with the universities of Minnesota, North Carolina, and Pittsburgh for 1st and 2nd year graduate students from all three programs who will participate in discussions by live video teleconferencing. Articles emphasizing methods which allow for translation from preclinical to clinical investigation will be discussed in several different therapeutic areas with emphasis on pharmacometrics, genomics, biomarker validation, and drug discovery. **Instructor’s permission is required. Please submit a one paragraph e-mail to Dr. Empey, pempey@pitt.edu, and Dr. Poloyac, poloyac@pitt.edu, to explain your interest in translational research and why you want to enroll in the class.**

PHARM 3040  Statistical Methods  Credits: 3
CLASS NUMBER: 14123  Coordinator: Dr. Kirisci
Enrollment Cap: 30 students

Course is designed to teach graduate students standard and advanced statistical methods of data analysis. Where appropriate and consistent with the students' educational background, theoretical foundations for statistical methods will be discussed. Students will obtain skills necessary to analyze simple as well as complex data sets and to identify and apply methods appropriate for solving statistical problems presented during class sessions, homework assignments, and exams. At the end of this course, students will have skills to construct and test statistical models and will be able to understand statistical methods used in research articles and critique the methods selected.

PHARM 1095  Community Connector Course  Credits: 2
CLASS NUMBER: 26597  Coordinator: Dr. Balouris
Time: Wed. 6:00-7:55PM, Forbes Tower Room 4065  Enrollment Cap: 3 students

This seminar focuses on the patient population, which is a high-risk population who are vulnerable to frequent re-admissions to the hospital. Emphasis will be placed equally on 1) understanding this patient population, the health system and health behavior challenges associated with this population, and systematic needs associated with reducing their health care needs and 2) exposing students to the patient population through visits at the hospital, home, and community including providing in-home assessments, patient education, and behavior change techniques. The course will include presentations by researchers, clinicians, and industry experts involved in these areas associated with this patient population. Students will be paired with a patient and follow them from the hospital to their home. **Please submit a one paragraph e-mail to Dr. Berenbrok, berenbro@pitt.edu, to explain your interest and why you want to enroll in the class.**
PHARM 5801  Pharmaceutical Care to Underserved Populations  Credits: 3  
CLASS NUMBER:  14121  
Coordinator:  Dr. Connor  
Enrollment Cap:  8  

A sequence of courses that address issues related to providing pharmaceutical care to underserved populations. Topic areas that will be addressed include: Psychosocial Factors Impacting Health, Political and Economic Influences on Health Care Access, Community Advocacy and Resources, Patient Assessment, Clinical Problem Solving Skills, Pharmacotherapy Management, and Patient Education. Students will have opportunities for interdisciplinary care and educational sessions.

PHARM 5806  Pediatric Pharmaceutical Care  Credits: 3  
CLASS NUMBER:  23823  
Coordinator:  Dr. Howrie  
Enrollment Cap:  15  

Provides students with opportunities to acquire the knowledge and skills necessary to provide pharmaceutical care to pediatric patients of all ages.

PHARM 5811  Clinical Nutrition  Credits: 1  
CLASS NUMBER:  23486  
Coordinator:  Dr. Johnson  
Time:  Mon./Wed. 11/5 – 12/5  
Enrollment Cap:  16 students  

Course examines the provision of adequate nutrition and nutritional support to ambulatory and hospitalized patients as well as the relationships between nutrition and disease and drug therapy and nutrition.

PHARM 5812  Healthcare Innovations 1  Credits: 1.5  
CLASS NUMBER:  14126  
Coordinator:  Dr. Pringle  
Enrollment Cap:  12 students  

Students will be able to effectively participate in a healthcare innovation application team as either a leader or participant that results in the application of an evidence-based healthcare innovation, which leads to improved patient care. Students will be able to develop detailed and effective strategic frameworks from which they can outline and track their progress in implementing a healthcare innovation.

PHARM 5815  Concepts of Managed Care Pharmacy  Credits: 2  
CLASS NUMBER:  18595  
Coordinators:  Drs. Lopata/Manolis  
Enrollment Cap:  20 students  

The purpose of this course is to understand the fundamental concepts in managed care pharmacy and the relation to the healthcare system. This course supports the school’s mission by enabling students to better navigate and understand the healthcare system from the perspective of different stakeholders to help optimize pharmaceutical care. Instructor’s permission is required. Please submit a one paragraph e-mail to Dr. Lopata, lopatae@upmc.edu, to explain your interest in managed care and why you want to enroll in the class.
PHARM 5817  Advanced Infectious Diseases  
**Credits:** 1  
**Coordinator:** Dr. Falcione  
**Enrollment Cap:** 18 students

Students will expand upon and apply knowledge and skills developed in the required Infectious Diseases 1 and 2 course sequence and Advanced Pharmaceutical Care 1 to new and complex infectious disease case scenarios, be introduced to the principles of antimicrobial stewardship, learn basic skills relevant to performing antimicrobial stewardship activities in a health system, and explore current controversies in infectious diseases to optimize the health patients with complex infectious diseases. Instructor’s permission is required. Please submit a one paragraph e-mail to Dr. Falcione, falcioneba@upmc.edu to explain your interest in advanced infectious diseases and why you want to enroll in the class.

PHARM 5818  Medical Parasitology  
**Credits:** 1  
**Coordinator:** Dr. Paul Schiff  
**Enrollment Cap:** 12 students

Course offers a concise presentation of the protozoan and helminthic parasites of medical importance, with an emphasis on parasitic morphology and life cycle, disease transmission, pathogenesis, prophylaxis, therapy and epidemiology.

PHARM 5820  Pharmacy Innovation 1  
**Credits:** 1  
**Coordinators:** Drs. Ali/Patel  
**Enrollment Cap:** 15 students

Course provides basic insights into issues that affect the care of patients in the community through discussions of contemporary topics and further develops the student’s skills in research by continuing the analysis and reporting of projects from community pharmacy health service research 2. Specifically, students will enhance their critical thinking skills by examining the drivers for specific contemporary issues (e.g. pharmacist role in an accountable-care organization) and by learning to ask testable scientific questions.

PHARM 5824  Mentored Research 1  
**Credits:** 1-2  
**Coordinator:** Varies  
**Enrollment Cap:** None

The purpose of the course is to give PharmD students in the research area of concentration an experiential educational offering within a research laboratory. The general focus of the research by the faculty in the Center for Clinical Pharmaceutical Sciences is to determine and evaluate the factors and quantitative relationships that lead to variability in disease progression and drug response in patients. Research is focused on the translational and clinical aspects of scientific research. Ongoing studies include clinically relevant animal models of disease through large population studies in order to bridge the bench to bedside to improved public health through clinical and translational research. Disease state interests include but are not limited to the areas of infectious disease, nephrology, critical care, stroke, psychiatric disorders, liver disease, oncology, and cardiovascular disease.  
**Coordinator’s permission is required.**
PHARM 5831  Healthcare for the LGBTQIA Community  Credits: 2
CLASS NUMBER:  28506
Coordinator:  Dr. Grieve
Enrollment Cap:  20 students

This course will prepare the student to assess and guide comprehensive medical treatment for LGBTQIA individuals. Students will learn about cultural competency and inclusive language, screening and diagnosis, gender affirmation, primary and preventative care, and advocacy.

PHARM 5851 – 5858  Special Topics 1 – 8  Credits: 1 - 3
CLASS NUMBERS:  TBD
Coordinator:  Varies
Time:  As arranged with faculty
Enrollment Cap:  Varies

Student has the opportunity to explore a pharmaceutical research or pharmaceutical care topic on an individual or small group basis with the oversight of a faculty member. Generally, the successful completion of a project is required. Student must apply using the Special Topics Web App. More information can be found in the PharmD Handbook under Special Topics - http://pages.pharmacy.pitt.edu/pharmdhandbook/special-topics-courses/.

**NEW OFFERINGS FOR FALL 2018**

PHARM 5835  Reinventing the Incumbent: Designing an Intrapreneurship Strategy  Credits: 1
CLASS NUMBER:  30651
Coordinator:  Drs. Ali/Patel
Enrollment Cap:  20 students

The goal of this course series is to introduce didactic and experiential elements of entrepreneurship for pharmacy students. This course offers students the foundations required to successfully understand, create, and execute entrepreneurial ideas in pharmacy. This includes learning from success in other fields, understanding the components that comprise pharmacy, and identifying current opportunities in pharmacy. Concepts of business models, funding, consumer behavior in healthcare and landscape reviews of technology in healthcare will be reviewed in this course. Career focuses for students would benefit in learning about starting a new company to disrupt incumbents, starting and managing new projects within an existing corporation, and new Management within the field of innovation.