NEW- Pharmaceutical Sciences Track

- PharmD students are required to take professional elective credits
- Students can elect to focus their elective credits by taking a track
- Current tracks include
  - Urban service
  - Pediatrics
  - LEADERS
  - Pharmaceutical Sciences (NEW for 2015/2016)

Why follow the Pharmaceutical Sciences track?

- PS track benefits
  - Recognized as “Pharmaceutical Science Scholars”
  - Gain experience/build CV
  - Become more competitive for internships/fellowships/jobs

Pharmaceutical Sciences Track Coursework

- 9cr of electives from the following departments
  - Pharmaceutical Sciences, Biology, Chemistry, Physiology & Neurobiology, Molecular & Cellular Biology, Physics, Pathobiology, Psychology
- Notes
  - Can count towards your professional electives
  - Can count towards a minor
  - Can count towards honors electives (if H section)

Pharmaceutical Sciences Track Requirements

- Three PS track requirements
  - Courses (9cr)
  - Research (6cr)
  - Presentation (1)

Notes, continued

- At least 6 of 9cr should be at 3000 level or higher (3cr may be at 2000 level)
- Graduate classes can count and are encouraged
- 3cr of prior coursework can be counted (6cr if you have a minor/major/prior degree)
Pharmaceutical Sciences Track

**Coursework**

- Courses already approved as professional electives and PS track (>25)
- Others can be considered on a case-by-case basis

- PHAR 4000 Pharmacogenomics and personalized medicine
- PHAR 5297 Drug Discovery and Development
- PHAR 5471 Advanced Pharmacology I
- PHAR 5454 Principles of Safety Evaluation
- PHAR 5301 Macromolecules in Drug Discovery and Development
- PHAR 5302 Small molecule structure and function
- PHAR 5303 Chemical Biology and Drug Design
- PHAR 6234 Advanced Biopharmaceutics
- CHEM 2445 Organic Chemistry Laboratory
- MCB 2210 Cell Biology
- MCB 2211 Gene Expression
- MCB 2400 Heredity and Society
- MCB 2410 Human Genetics
- MCB 2413 Concepts of Genetic Analysis
- MCB 3011 Cancer Biology and Drug Discovery
- MCB 3246 Virology
- MCB 3412 Genetic Engineering and Functional Genomics
- MCB 4009 Structure and Function of Macromolecules
- MCB 4211 Basic Immunology
- MCB 4416 Forensic DNA Science
- MCB 5427 Lab Techniques in Functional Genomics
- PNB 3251 Biology of the Brain
- PSYC 2200 Physiological Psychology
- PSYC 2201 Drugs and Behavior
- PSYC 3105 Health Psychology
- PSYC 3501 Sensation and Perception
- PSYC 3504 Sensation and Perception

**Pharmaceutical Sciences Track Research**

- Research
  - 6cr of research
  - Can be independent study
  - Can be performed as an APPE rotation
  - Research can be performed in these departments: Pharmaceutical Sciences, Biology, Chemistry, Physiology & Neurobiology, Molecular & Cellular Biology, Physics, Pathobiology, Psychology
  - It is the responsibility of the student to find a research mentor

- Example
  - A student is interested in pharmacogenomics/personalized medicine
  - Student should find a mentor doing research in that area — e.g. Dr. Zhong, Dr. Rasmussen
  - Could satisfy track course requirements by taking these professional electives.
    - MCB 2410 Genetics
    - PHAR 4000 Pharmacogenomics
    - PHAR 5471 Advanced Pharmacology I
  - Could satisfy research requirements by doing 1cr/semester for 3 years

**Pharmaceutical Sciences Track Presentation**

- The student will give one presentation to communicate the results of their research
  - Poster
  - Talk

**Pharmaceutical Sciences Track Admissions**

- Steps
  - 1. Find a research mentor
  - 2. Maintain a GPA > 3.0
  - 3. Apply any time during P1/P2 year
  - Contact Dr. Wiemer (andrew.wiemer@uconn.edu)